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(54) **PROGRAM, SYSTEM, AND METHOD FOR LINKING COMMUNITY PROGRAMS AND MERCHANTS IN A MARKETING PROGRAM**

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(57)   **ABSTRACT**

The present invention is a system, data access management utility and a method of generating links between local merchants and community programs, whereby the merchant may provide incentives to customers in relation to community programs. The present invention may track community programs, as well as both online and offline customer transactions between participants that make use of the incentive. The present invention may include as participants, customers, merchants, community organizations, intermediaries, and other groups or individuals. Participants may have participant identifiers, which may be linked to a payment source. Data may be collected about all participants, either expressly, or from offline or online transactions between participants utilizing a participant identifier, and said data may be stored in a data storage area. All data in the data storage area may be utilized by logic tool, which may provide information, such as details of consumer behaviour and analytic reporting. Matches between transactions and members and/or member activities may be identified by the system, and a level of certainty that the match is accurate may be determined.

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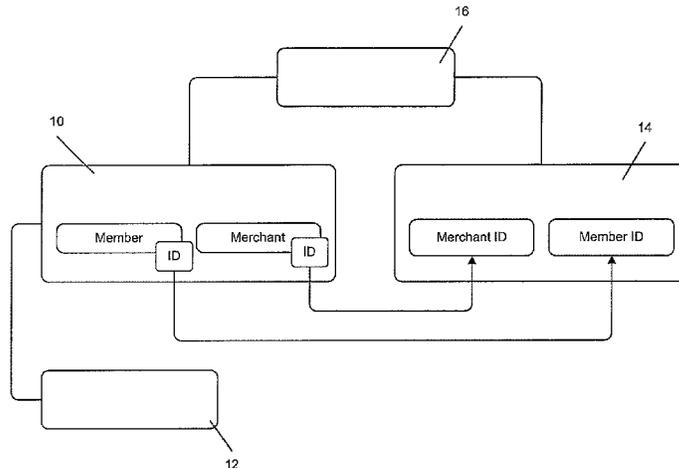
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division of application No. 12/944,474, filed on Nov. 11, 2010, now Pat. No. 9,111,295.

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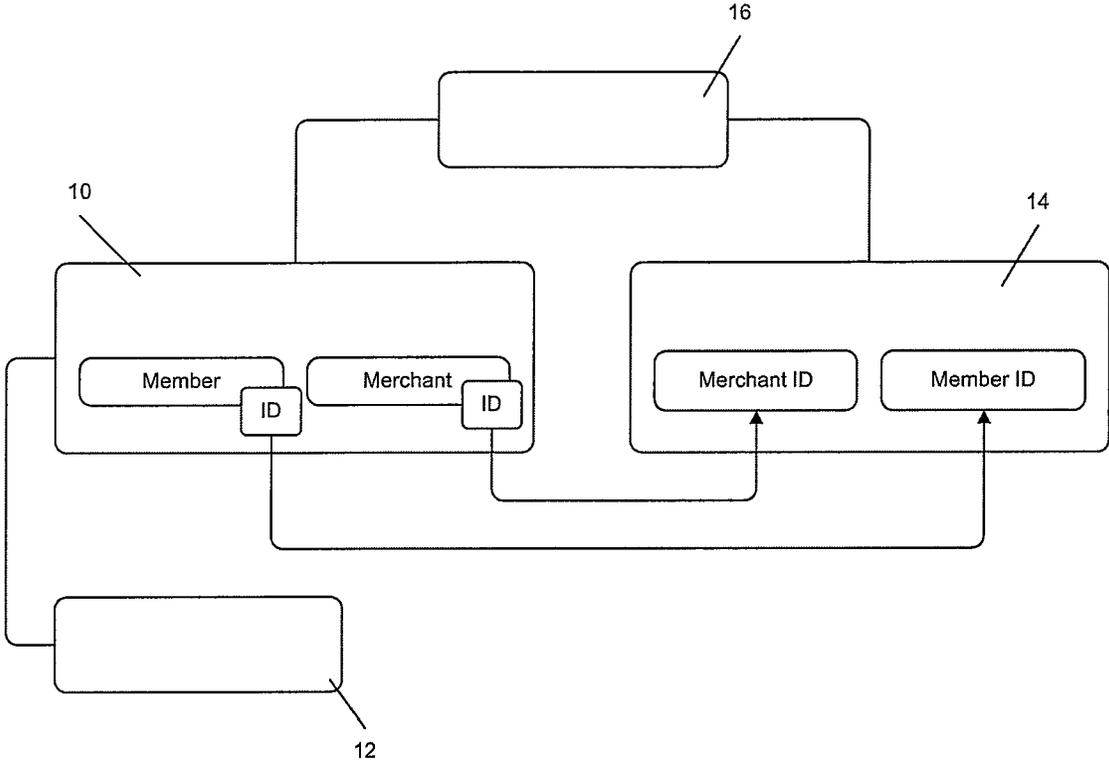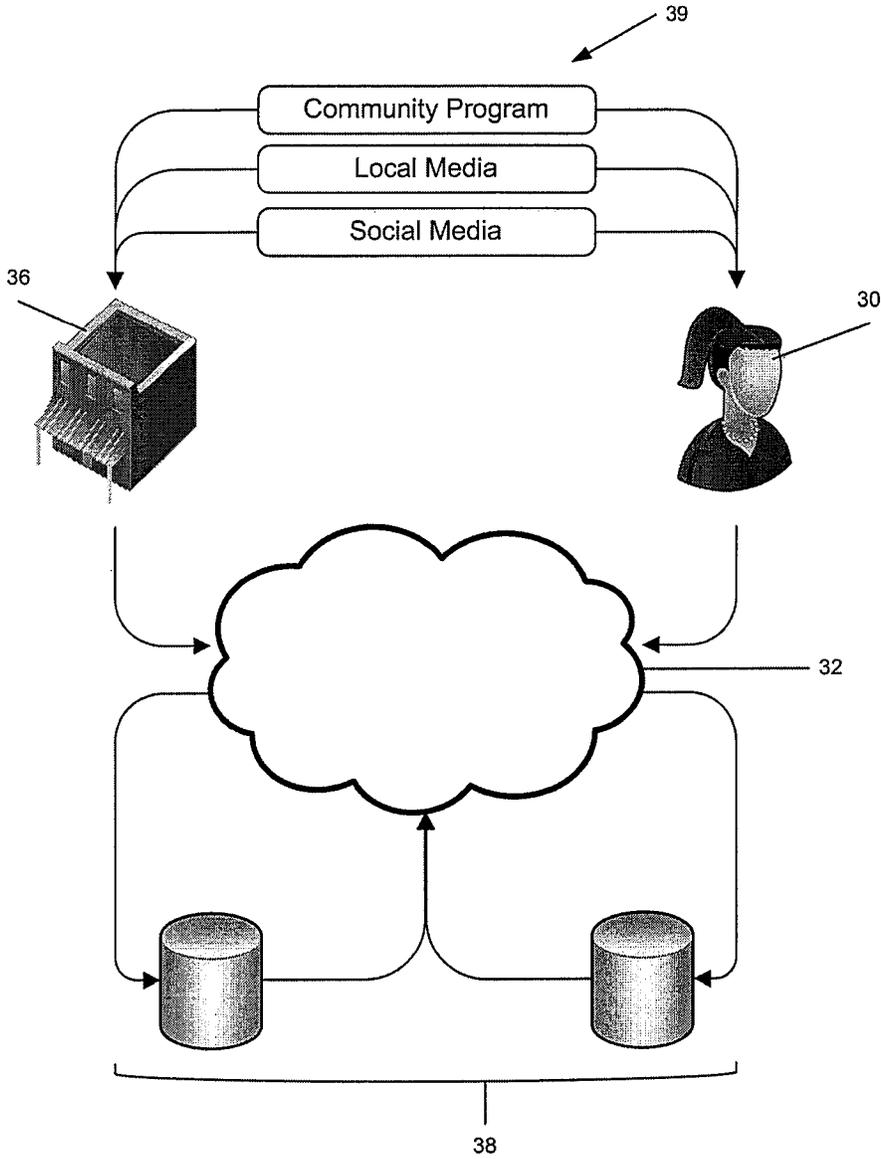
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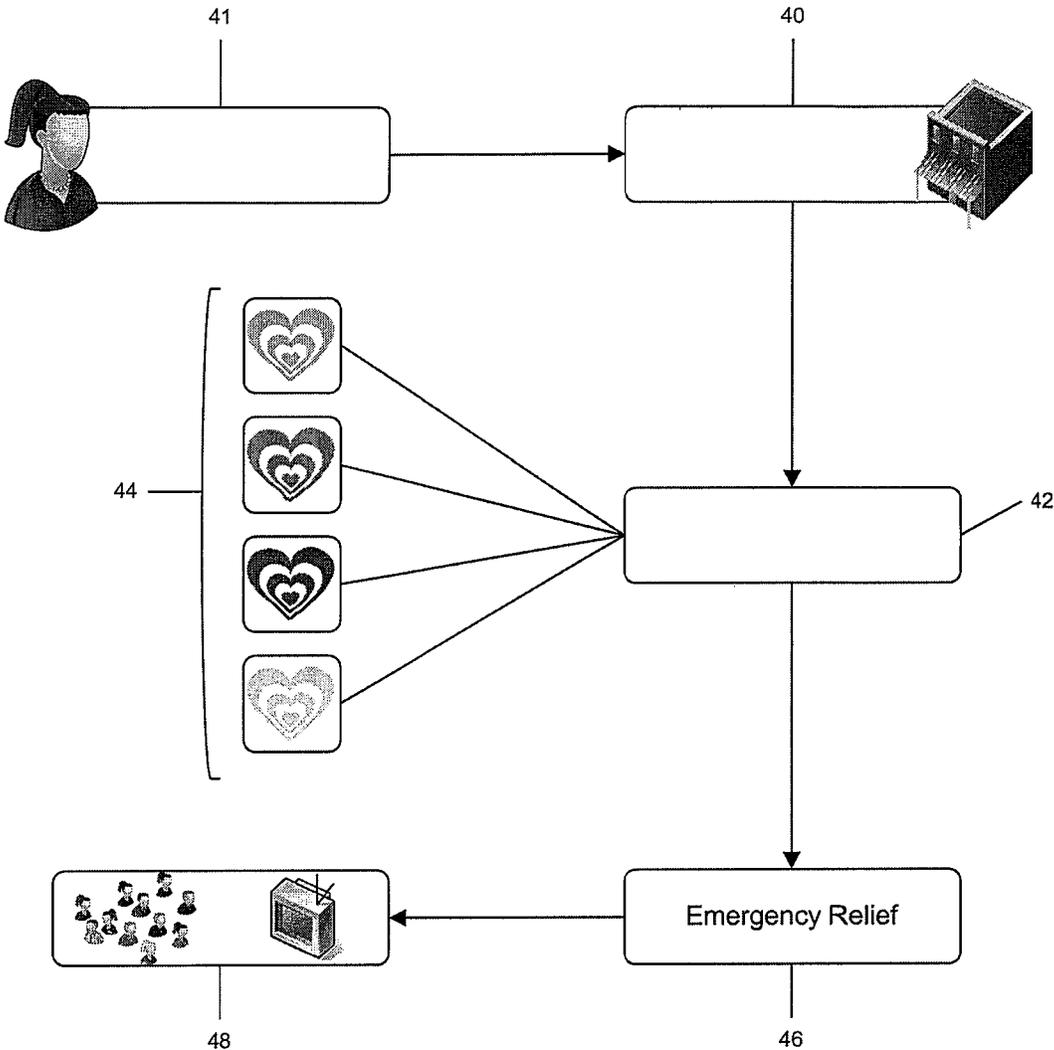| Member		Merchant	
	ID		ID

Merchant ID

Member ID

12

FIG. 1

FIG. 2

FIG. 3

41

40

44

42

Emergency Relief

48

46

FIG. 4

50
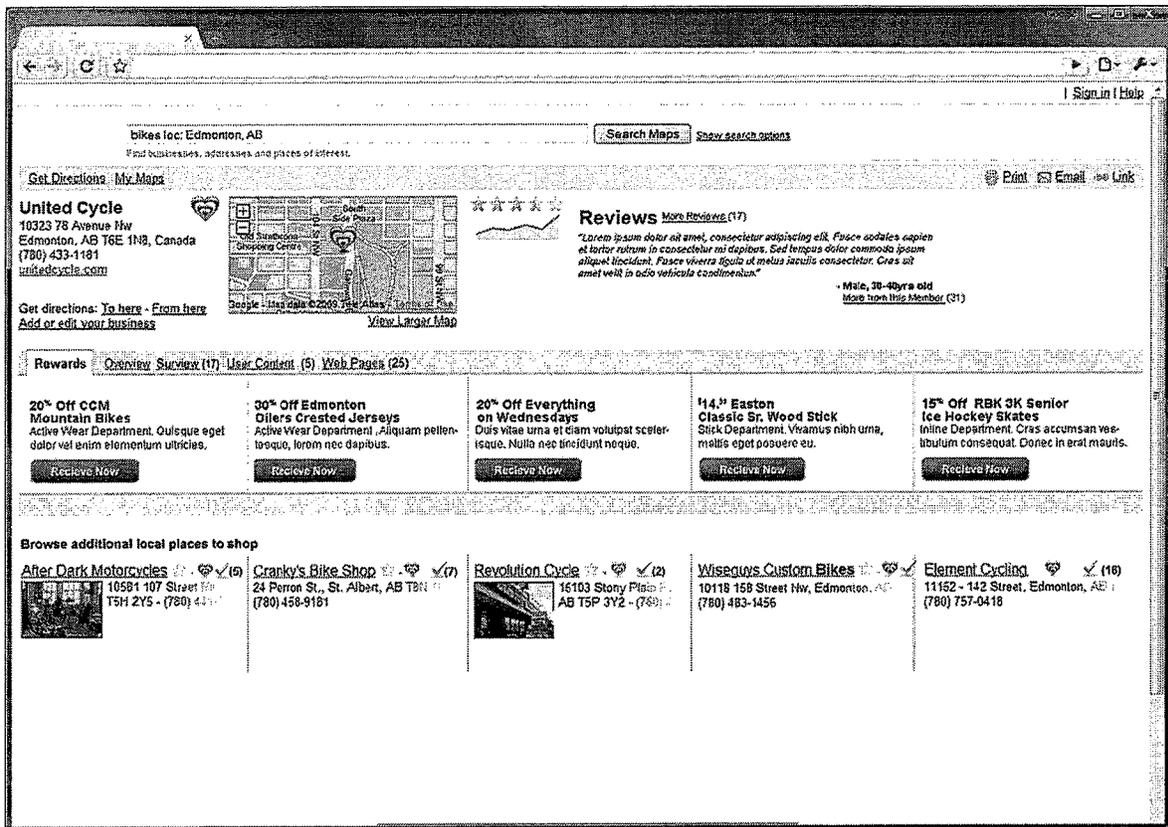
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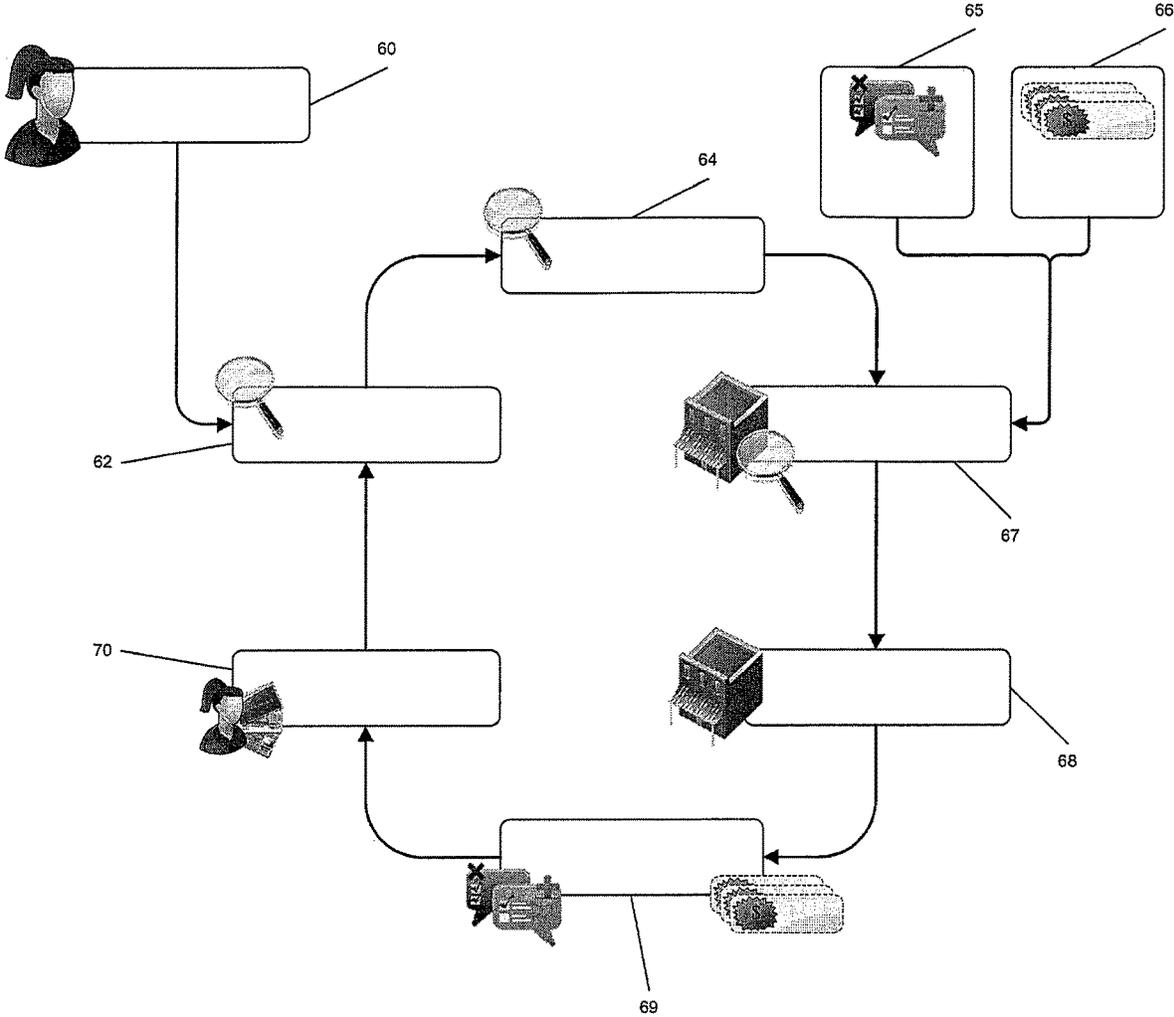
FIG. 6

FIG. 7

FIG. 8

FIG. 9

FIG. 10

152 — Collaboration

Results sharing

174

150 — Merchant 1   Merchant 2   Merchant N

154 — $ -10% $ -10% $ -10%

156

$ -10%

15% Donation

170

172 — Combined incentive report

158 — Member

160 — Searches

Search engine & other media

161

162 — Search history

164 — Marketing engine

167 — Post transaction survey

166 — Transactions

Transaction processing system

169

Transaction Data

168

FIG. 11

PROGRAM, SYSTEM, AND METHOD FOR LINKING COMMUNITY PROGRAMS AND MERCHANTS IN A MARKETING PROGRAM

CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a continuation application of U.S. patent application Ser. No. 14/480,721, filed Sep. 9, 2014, which is a divisional of U.S. patent application Ser. No. 12/944,474, filed on Nov. 11, 2010, now U.S. Pat. No. 9,111,295, which is a continuation of PCT application PCT/CA2009/001605, filed on Nov. 6, 2009; each of which is hereby incorporated by reference in their entireties.
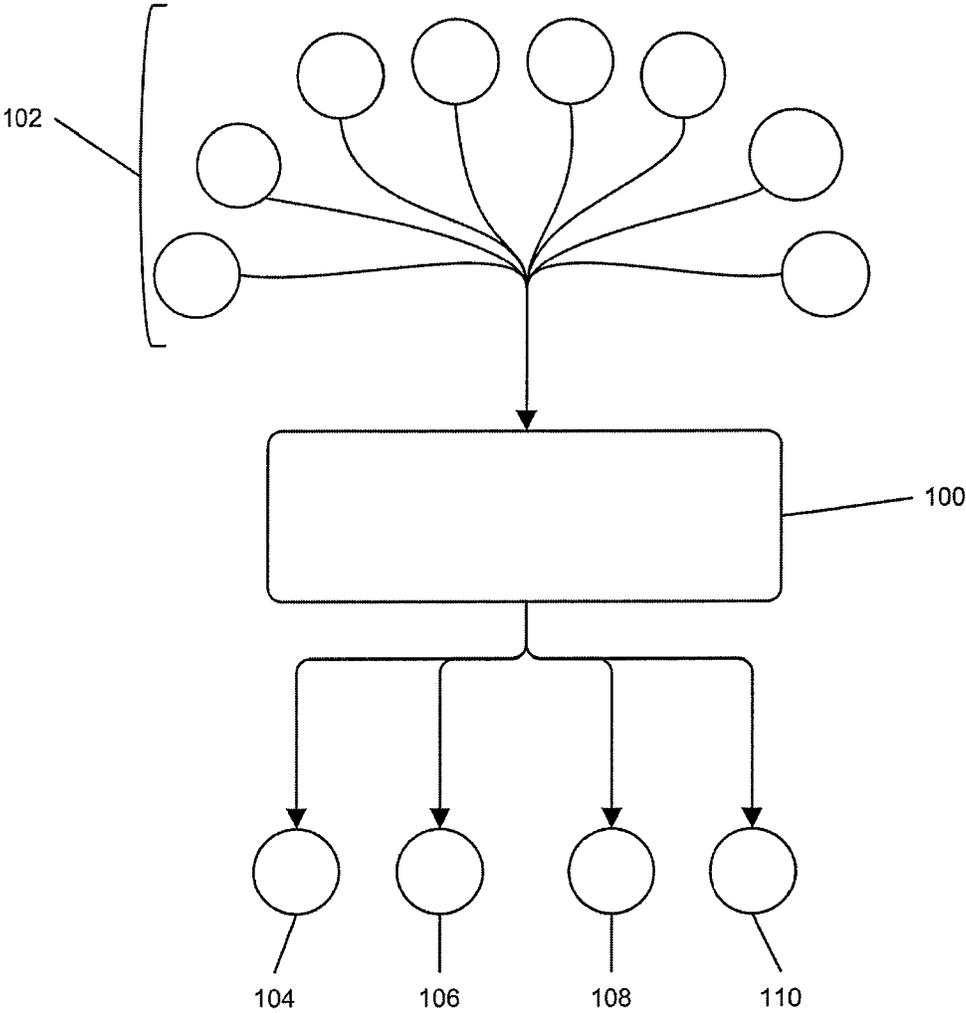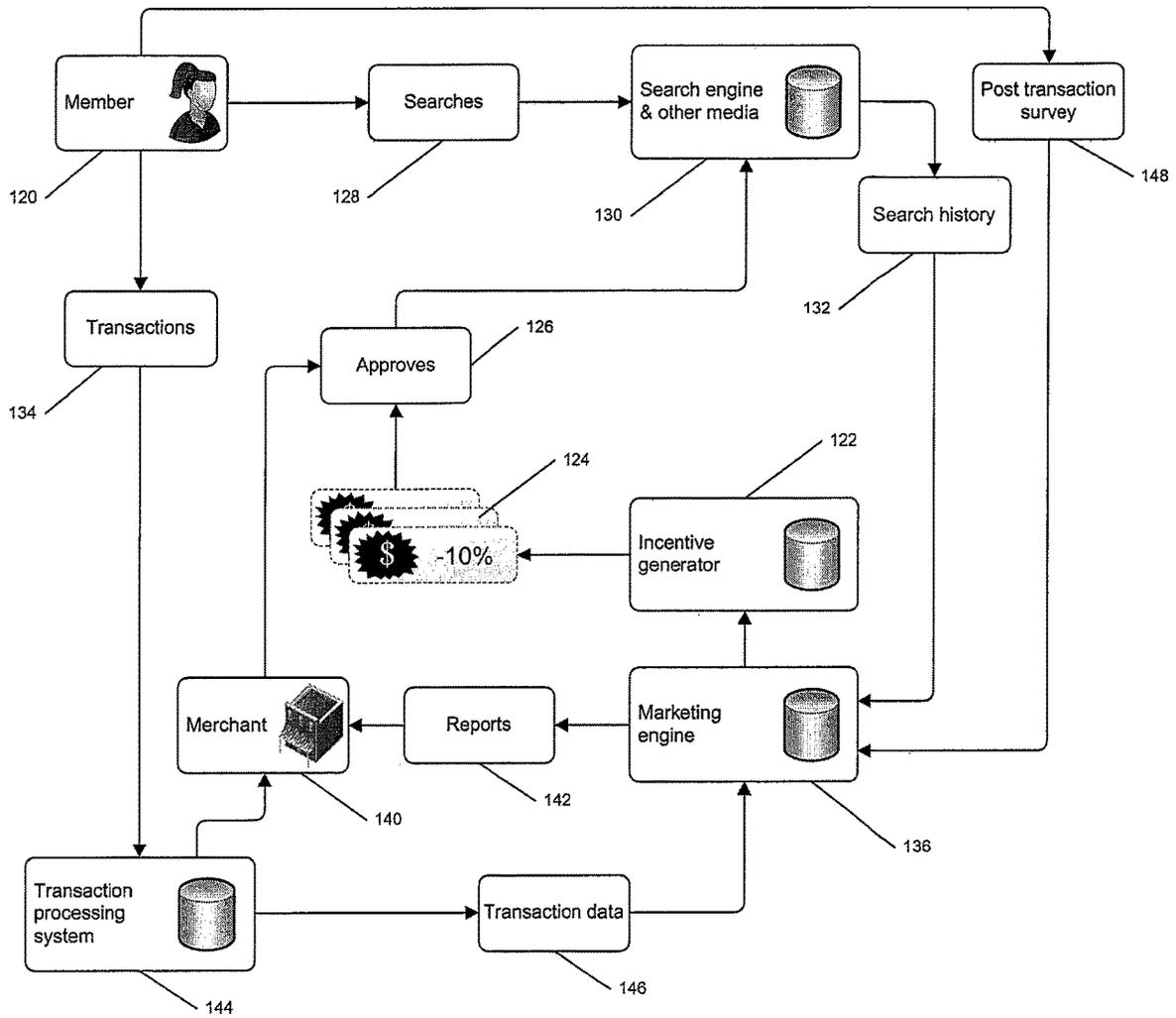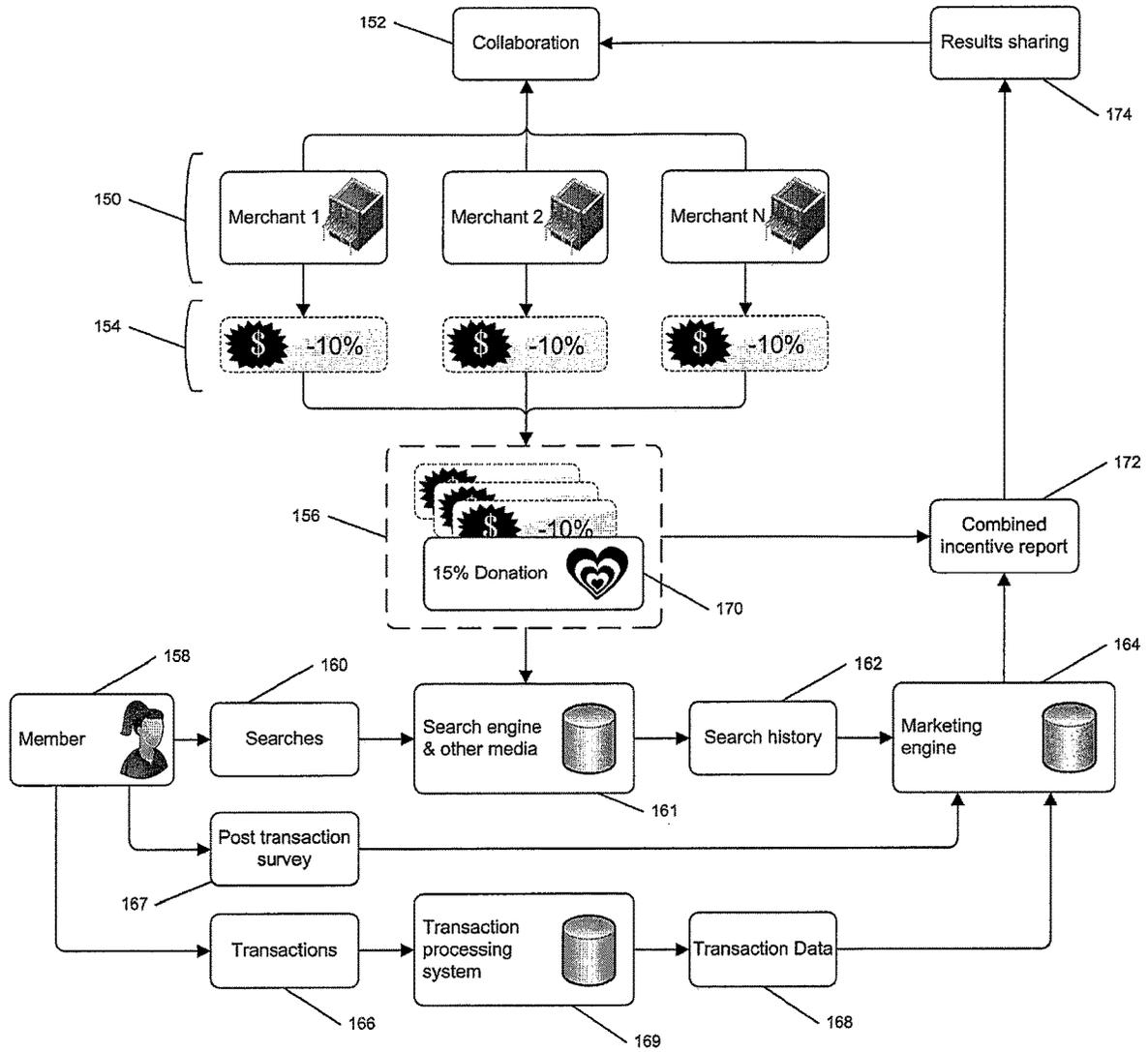
FIELD OF THE INVENTION

The present invention relates to customer transactions and a marketing system promoting links between community programs, merchants, members and possibly intermediaries.

BACKGROUND OF THE INVENTION

Several systems presently exist that provide reward points or discounts to member customers. Most of these are set-up as loyalty systems whereby a loyalty card or number is provided to a customer. A customer may gain reward points when a transaction occurs and the loyalty card or number is provided at the point of the transaction. Generally, the use of the loyalty card or number is recorded at the point of sale device. Accumulated reward points can be redeemed for products, discounts, or other rewards. Such loyalty systems are provided directly by a merchant or by an organization representing one or more merchants.

Additionally, systems have been created whereby reward points accumulated by a user may be donated to an organization, such as a charitable organization. For example, U.S. patent application Ser. No. 11/746,502 discloses an invention wherein a percentage of a transaction cost may be donated directly to a charitable organization. The choice to donate reward points, or a percentage (or other portion) of a transaction, to a charitable organization may be at the discretion of a customer. For example, the choice may be made at the time of registering with a loyalty program, so that specified future transactions will automatically generate a donation. Alternatively, the choice may be made at the point of redeeming reward points, whereby the customer can direct particular points to a charitable organization. Yet another option is for the choice to be made at the time of the transaction.

SUMMARY OF INVENTION

In one aspect, the present disclosure relates to a marketing system operable to promote one or more merchants and the products and services of the one or more merchants in a inter-connected environment, comprising: a data collection server operable by one or more computer processors to receive or access data including data pertaining to one or more members and the one or more merchants that are participants of the marketing program; a transaction details processor operable to collect and transfer details of one or more transactions to the data collection server, said one or more transactions occurring between the one or more merchants and the one or more members; a transaction linking utility operable to process and analyze search history details, the transaction details, and the data of the data collection

server to determine the likelihood that one of the one or more transactions is the result of the search results provided to a user or one of the one or more members; and a data mining tool operable to analyze by operation of the one or more computer processors of the of the data collection server, the transaction details and the data regarding the one or members and the one or more merchants, said data mining tool further being operable to generate one or more incentives to increase the transactions, for example the number or value of the transactions, occurring between the one or more merchants and the one or more members.

In another aspect, the present disclosure relates to a marketing program method comprising the following steps: one or more members providing information to the marketing program during a sign-up process and based upon subsequent activities; one or merchants providing information to the marketing program during a sign-up process and based upon subsequent activities; one or more intermediaries providing information to the marketing program during a sign-up process and based upon subsequent activities; generating one or more incentives to be offered by one or more of the one or more merchants to the one or more members by way of one of the following: off-line media; an online search or browsing session undertaken by one of the one or more members; or direct communication to the communication device of one of the one or more members; applying the one or more incentives to provide one or more benefits to at least an intermediary; providing details of the transaction to the marketing program; utilizing a transaction linking utility to determine the likelihood that a match exists between the transaction details and activity by one of the one or more members; and utilizing a data mining tool to generate future incentive suggestions.

In this respect, before explaining at least one embodiment of the invention in detail, it is to be understood that the invention is not limited in its application to the details of construction and to the arrangements of the components set forth in the following description or illustrated in the drawings. The invention is capable of other embodiments and of being practiced and carried out in various ways. Also, it is to be understood that the phraseology and terminology employed herein are for the purpose of description and should not be regarded as limiting.

BRIEF DESCRIPTION OF THE DRAWINGS

The invention will be better understood and objects of the invention will become apparent when consideration is given to the following detailed description thereof. Such description makes reference to the annexed drawings wherein:

FIG. 1 is a systems view of the marketing program.

FIG. 2 is a view of a merchant incentive communicated to a smart phone.

FIG. 3 is a systems view of a data transfer between a merchant, a member, the marketing system and a data storage area.

FIG. 4 is a systems view of a transfer of donations by the marketing system.

FIG. 5 is a screen view of a merchant information web page.

FIG. 6 is a systems view of a search request process.

FIG. 7 is a view of the flow of one embodiment of the marketing program generating members through a boarding process.

FIG. **8** is a flowchart showing the steps in one embodiment of the invention for a user to query a merchant and redeem an incentive at a merchant's bricks and mortar store location.

FIG. **9** is a system diagram showing the marketing system outputs that may be generated by the data mining tool, and sometimes the analytic mode, in embodiments of the present invention.

FIG. **10** is a flowchart showing the options for member interaction with the marketing program in one embodiment of the present invention.

FIG. **11** is a flowchart showing the options for an embodiment of the present invention involving cross-selling.

In the drawings, embodiments of the invention are illustrated by way of example. It is to be expressly understood that the description and drawings are only for the purpose of illustration and as an aid to understanding, and are not intended as a definition of the limits of the invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

The present invention is a system, data access management utility and a method of generating links between local merchants and community programs, whereby the merchant may provide incentives to customers in relation to community programs. The present invention may track community programs, as well as customer transactions, including both online and offline transactions, that occur between participants and that make use of the incentive, as further detailed below. The present invention may include as participants: customers, merchants, community organizations, intermediaries, and other groups or individuals, including merchants, members and intermediaries of the marketing system of the present invention. Participants may have participant identifiers. The participant identifiers may be generated by the marketing system or may be linked to a payment source. Data may be collected about all participants, either expressly, or from offline or online transactions between participants utilizing a participant identifier, and said data may be stored in a data storage area. All data in the data storage area may be accessed by a data mining tool, a transaction linking utility, and an analytic mode, which may provide results that include information, such as details of consumer behaviour and analytic reporting. Matches between transactions and members may be identified by the transaction linking utility, and a level of certainty that the match is accurate may be determined.

For the purpose of this patent application, the term "community programs" may be understood to define an ongoing community program (such as a shelter in a community), a term community program (such as a charity funding drive), or a community event (such as a festival). The term "community programs" may further be understood to define a community program serving a specific area (such as a festival held in a local park), a community program serving a neighbourhood (such as a neighbourhood clothing drive), a community program serving a larger area (such as a city-wide hosting of a sporting event), or a community program serving a still wider area (such as a national literacy program, or an international development program).

Businesses in the marketing program are referred to as "merchants", while customers are referred to as "members". An entity granted limited participation in a marketing program, such as for a specific term, or only granted the ability to participate in specific activities, such as an advertising associate, may be referred to as an "intermediary". The term

"participants" may reference any entity participating in a marketing program, including merchants, members, intermediaries, system administrator(s) and any other participant in the marketing system.

The present invention may involve an Internet, intranet or other networked environment. Therefore, any reference to any of Internet, intranet or other networked environment should be understood broadly to encompass not only the referenced term, but all of Internet, intranet or other networked environment. In the same manner terms indicating aspects of either the Internet, an intranet or another networked environment, such as a webpage in an Internet environment, should be understood broadly to include the equivalent available in the Internet, intranet or other networked environment.

The marketing system of the present invention may be particularly advantageous for local or regional participant merchants. These merchants typically do not have a significant, if any, online presence (e.g., they may be strictly a "brick and mortar store"). The present invention may enable such merchants to benefit from access to, and/or generation of, real-time analytic information relating to members, community programs, and other information that would not otherwise be available to them. For example, the transaction linking utility, and the data mining tool of the present invention, sometimes with an analytic mode, may be used by a local participant merchant store to derive actual or projected customer behaviour information and other reporting. As an example of the function of the marketing system, such information or reports may be utilized to design future incentive programs to be implemented by merchants and to generate links between local merchants and community programs operating in a nearby location.

Such links may include, for example, incentive programs that provide a donation to a community program based upon a purchase between a customer, such as a member of the marketing system, and merchant of the marketing system, incentive programs that occur during a community program event, such as a festival, or other incentive programs that link community programs and merchants. The links may be formed because the activities of the community program and the merchant become intertwined and/or inter-reliant. Returning to the prior examples of incentive programs, the link between the merchant and the community program occurs in the former example because donations are provided to the community program upon a purchase from a merchant, and in the latter example because the merchant incentive is only offered during the time of a community program event. The activities of the community program and the merchant become inter-reliant. A skilled reader will recognize that a variety of other links may be formed between merchants and community programs through a variety of other means or other types of incentive programs as well.

Overview

In one embodiment of the present invention a system administrator of a marketing system may facilitate the collection of information regarding community programs. This may involve community programs providing information to the system administrator of their own volition and/or the system administrator searching for, and requesting, community program information. Such community programs may be occurring in the immediate, near or distant future. The information may be collected via an online search, a search of one or more community databases, from information sent by community programs to the administrator, or other means. Information regarding community programs

may be stored in a data storage source, such as a database. Merchants, members and other groups or individuals may become participants in the marketing system. Each participant may have a participant identifier. Upon joining the marketing system, or after joining, the participants may provide information regarding themselves, including the location of the participant (e.g., a merchant's store(s) location(s), a customer's home and/or work address, etc.) to the marketing system. The marketing system may store the information as data in the storage area.

The data in the storage area may be mined by a data mining tool. The data mining tool may be utilized by any participant of the marketing system. For example, the data mining tool may be used to match a community program to a participant merchant in the area where the community program is to occur, or is occurring. The result may be that a local participant merchant may be made aware of an upcoming local festival. The participant merchant may devise a merchant incentive in relation to the community program, such as a discount, a donation to the community program, a give away, a sweepstakes entry, rewards (such as reward points) or any other incentive.

The data mining tool may also be utilized to identify members of the marketing system who are identified as existing near the participant merchant store location. For example, the data mining tool may identify participant members living and/or working in the area of the merchant store location and/or one or more community programs, in accordance with member profile information and other data stored in the data storage area and any linked data sources. The data mining tool may also be utilized to identify participant members who may be likely to visit the merchant store and/or make use of the incentive, in accordance with demographic information or preferences derived from data stored in the data storage area and any linked data sources. A skilled reader will recognize that other information regarding a member, for example, such as transactional behaviour, may also be utilized to identify participant members who may be likely to visit the merchant store and make use of the incentive.

The merchant, or another market system participant working with the merchant, may advertise the merchant's one or more incentives and/or the community program to at least the members identified by the data mining tool. Such advertisements may be communicated to an identified member and/or other potential customers by a variety of online and offline means, including a webpage, an email, a communication sent to a mobile device, a print advertisement, a radio advertisement, etc.

In an embodiment of the present invention that involves cross-selling or cross-loyalty, as described in more detail below, the invention may facilitate consecutive, or simultaneous, communication of related incentives. For example, incentives of two merchants involved in a cross-selling program may be communicated either immediately one after the other, or together. The communication may further indicate a link or other connection between the incentives based upon the cross-selling program. A skilled reader will recognize that a variety of ways to indicate cross-selling or cross-loyalty incentives may be provided.

In one embodiment of the present invention, a member may view a display of incentives on a webpage when the member logs onto the marketing system website. The display may be immediately presented after login, or may be presented upon a selection by the member, such as the selection of a particular webpage, a link, or an incentive display option.

In another embodiment of the present invention, a merchant may have an option regarding setting the prominence of the communication of an incentive to a member or other participant. For example, a merchant may make a request, and may pay a fee, for a particular prominence of an incentive in a communication to a member, other participant or any third parties. A merchant may also be given the opportunity to bid for a more prominent communication or display of an incentive to a member, participant of the marketing system, or third party. A skilled reader will recognize that prominent communication or displays of an incentive may involve a variety of criteria, such as, for example: the time of day when a communication occurs via radio; the positioning of an incentive on a webpage, printed page, or list showing one or more incentives; the typeface or graphics (e.g., bold, coloured, etc.) of an incentive on a webpage or printed page; etc.

A participant and/or third party may redeem an incentive, through an online of offline transaction. Transaction details of transactions occurring between a merchant and a participant or third party, may be stored in the data storage area. At the time of the transaction a member, or other participant, may provide a marketing system participant identifier to a merchant.

Transaction details may be transferred to the marketing system for storage and mining by a variety of means and at a variety of times. For example, transaction details may be transferred to the marketing system in real-time (e.g., as a transaction occurs and concludes), near real-time (e.g., almost immediately after a transaction concludes), and/or after a time lapse (e.g., at the end of a time period, such as a set time(s) during a day, at the end of the day, at the end of a week, at month-end, or at any other time after a transaction is finished, information regarding one or more transactions may be provided to the marketing system). The data mining tool may be utilized collect data from the storage area, and possibly other data sources, to generate specific information, for example, such as information regarding consumer behaviour data that may provide: one or more reports pertaining to a particular incentive (e.g., success of an incentive); information to be utilized to create a new incentive; suggestions of new incentives; or other information.

In particular, the data mining tool may be utilized to determine if a transaction occurred as a result of an incentive. For example, the data mining tool may be engaged (and optionally the analytic mode may also be engaged) to recognize particular pre-transaction behaviour by a participant, for example, such as the search for a merchant or a product by a participant, communication of an incentive to a participant, or other information. The pre-transaction behaviour if followed by a transaction with a particular period of time may be assumed by the marketing system to indicate that the transaction occurred based upon the incentive (or that the transaction occurred based upon the search). It is also possible for a post-transaction survey to be provided to the participant who engaged in the transaction, and data collected from the survey may establish that the transaction occurred due to the search and/or the incentive. Such data may be utilized by the marketing system, merchant, and/or other participants to make determinations about future incentives, success of past incentives, marketing strategies, and other decisions.

Embodiments of the present invention may include a transaction linking utility to access the data in the data storage area or data extracted or analyzed by the data mining tool and the analytic mode, and to utilize this data to identify

links between a transaction and a member. For example, the transaction linking utility may analyze the data to recognize the existence of links or matches between transactions and other behaviour or activities of members or users. As such, the transaction linking utility may be operable to identify a match between a search by a member and a later transaction when the member purchase a product or service at a merchant's store that the member had earlier searched. The transaction linking utility may further determine a likelihood or level of certainty that a transaction resulted from an earlier search by a member. This operability of the transaction linking utility is described in more detail below. A skilled reader will recognize that the transaction linking utility may utilize a wide variety of data to undertake its function and may link a transaction to a wide variety of behaviours or activities by a member, and may determine the link to be of varying degrees of likelihood or certainty. The transaction linking facility may also involve data such as member profile data, including a member's financial card information, or a member's identification, to determine a link between a member and a transaction.

Participants of the marketing system, other than the administrator, may not be provided with direct access to the data stored in the data storage area. Thus, any personal information regarding a participant stored in the data storage area will not be accessible by participants. Additional security measures may be included in the marketing system to ensure that personal information regarding a participant stored in the data storage area will not be disseminated to participants. Such security measure may further include means whereby the data mining tool, transaction linking utility and analytic mode may generate information in a manner so that such information is devoid of personal information regarding specific participants. In this manner, privacy of information, including personal information, may be maintained by the marketing system. Privacy of information of the marketing system may meet or exceed any regulations regarding private information in a specific location or wider area.

Benefits of the Present Invention Over the Prior Art

The present invention may offer many benefits over the known prior art. For example, many local merchants lack the ability to access information sources that offer both: information regarding community programs local to a merchant store location; and customer participant information. The data and other information either stored in the data storage area of the marketing system of the present invention, or in other data sources that are accessible by the marketing system, may be queried to identify members likely to make use of a merchant incentive. The present invention permits local merchants to become participants of the marketing system and to access this information. The present invention also offers a greater level of control to the merchant to create specific incentives related to community programs and to track the use participant members make of the incentives. Merchant store locations can be easily linked into community programs in the same locality.

The present invention provides an additional benefit, in that the tracking of participant customer transactions that make use of an incentive does not require a point of sale system. The prior art generally utilizes a point of sale device to track transactions made by a customer having a rewards number or card at a store. Point of sales systems are expensive and may lack compatibilities with other point of sale systems utilized by other merchants. In the present

invention, as tracking of transactions between merchants and members does not occur by way of the point of sales system, it is not necessary for a merchant to install an expensive point of sale system having tracking capabilities required by the prior art. Thus, the present invention may provide a cost-effective means of tracking transactions as compared to expensive prior art systems. Additionally, the present invention allows for transaction tracking to occur whether the transaction occurs online or offline. For example, a participant customer making a transaction in a bricks and mortar location of a participant merchant may be trackable in accordance with the present invention. Moreover, any participant merchant incentive may be applied to a participant customer transaction that occurs either online or offline.

Still other benefits of the present invention include the wide range of information that is collected in a common data storage area for use by the data mining tool, the transaction linking utility and the analytic mode, and the operability of the data mining tool, the transaction linking utility and the analytic mode to prevent dissemination of private and/or personal information. Prior art inventions do not involve the collection of the breadth of information into a single location that is accessible by a data mining tool, a transaction linking facility and an analytic mode, that the present invention achieves. Nor do prior art inventions limit the accessibility of private and/or personal information as effectively as the present invention.

Yet another benefit of the present invention over the prior art is that the present invention links seamlessly to social media and mobile devices. Consequently, an individual is not required to visit the marketing system's website necessarily to participate in activities of the marketing system. For example, advertisements of incentives may be provided via social media and/or mobile devices, as may surveys, information entry, and other facilities.

Another benefit of the present invention over the prior art, is that, should the incentive involve a donation to a community program, the donation is reportable by the data mining tool in a clear manner. The result may be that the present invention offers accountability in its reporting of donations. This accountability may also be the standard for donations to community programs made by participants of the marketing system by other means than incentives. The donator can see that the donation amount has been passed by a payment source to the community program.

Still another benefit of the present invention over the prior art is that the present invention may have several results for participants not achieved by prior art inventions.

The present invention may increase revenues of merchants by increasing transactions of the merchants that are participants of the marketing system due to customer (including participants) interest in, or loyalty to, community programs.

The present invention may increase customer (including participant) awareness of a local participant merchant store by permitting searching for the merchant, communicating incentives from the merchant to members, mapping features showing merchant locations, and other features of the present invention.

The present invention may also increase merchant goodwill by promoting the merchant's support of one or more community programs. The present invention may increase support of community programs by making it easier for merchants to become cognizant of community programs occurring near merchant stores in the same locality as the community programs. The support of community programs

by merchants may be financial, or may be by increasing participant consumer awareness of community programs occurring in a particular location.

System

The present invention may include a marketing system involving a web server accessible by an administrator, one or more merchants, and one or more members registered with the marketing system. The web server may also be accessible, by way of specified and possibly limited access, by one or more intermediaries registered with the marketing system and third parties. The web server may be linked to a data storage area. Data pertaining to the administrator, merchants, members and/or intermediaries may be stored in the data storage area. Some data pertaining to third parties may also be stored to the data storage area in some embodiments of the present invention. At least one participant identifier may be stored in the data storage area for each registered participant of the marketing system.

The web server may be operable so that a merchant may provide information to the web server regarding one or more transactions between a merchant and a customer. The customer may be a member of the marketing system. A skilled reader will recognize that data pertaining to a transaction between a merchant and a member, or other customer, may be transferred to the web server by a variety of means, for example, such as via manual entry, via another communication means, etc.

In one embodiment of the present invention, a point of sale facility may also be utilized by the marketing system in some embodiments of the present invention. The point of sale facility may be in communication with the web server, and may pass information regarding a transaction occurring between a merchant and a customer to the web server. The customer may be a member of the marketing system.

In another embodiment of the present invention, data, or other information, may be transferred regarding a member or other participant from a separate data source, such as a data base, to the marketing system. For example, a member may be a financial card holder, and all financial card holders may be given the option to become members of the marketing program. The financial card company may also become an intermediary of the marketing system. Once a financial card holder agrees to become a member of the marketing system, information and other data regarding the financial card holder, as gathered by the financial card company, may be either transferred to the marketing system, or may be made accessible by the marketing system.

A skilled reader will recognize that other groups may become members, such as, for example store card holders, members of a community group, such as a co-op, bank card holders, or any other group, and that the persons involved in the group may become members of the marketing system. The group may gather information independently from the marketing system and this information regarding persons who become members of the marketing system may be made available to the marketing system via a transfer, or via access to the data source of the group.

The persons involved in the group may be granted an identification, such as a numeric identification. This identification may be acknowledged by the marketing system, so that when a person involved in the group becomes a member of the marketing system, the marketing system stores the identification provided by the group. The identification may be stored in the marketing system as the participant identifier. In some embodiments of the present invention more than one participant identifier may be stored in the marketing system for a member, or a participant identifier may be

stored and other identifications may also be stored. Any transaction that occurs and utilizes the identification may be recognized by the marketing system as a transaction involving the member whom the identification represents.

For example, a financial card holder may be granted a financial card number. The financial card holder may become a member of the marketing system. Upon becoming a member of the marketing system the financial card number of the member may be transferred, or otherwise provided, to the marketing system. The marketing system may utilize the financial card number as an identification for the member.

The one or more identifications, or one or more participant identifiers, identified as pertaining to a member of the marketing system may be utilized by the member during a transaction. For example, a member may utilize a financial card during the transaction and the financial card number may be an identification, or participant identifier, identified as pertaining to the member by the marketing system. The marketing system may therefore recognize that the transaction involves the member due to the use of the financial card number. A skilled reader will recognize that other identifications, or participant identifiers, may be utilized by a member, that such identifications may be stored by the marketing system, and that use of an identification, or participant identifier, during a transaction may provide a means of identifying a transaction as involving a particular member. As described above, the identification may be stored as a participant identifier by the marketing system.

As shown in FIG. 1, the marketing system may be operable in accordance with a web-based computer program product that provides a loyalty engine 10, linked to the web server. The loyalty engine may provide a marketing system interface to enable specific features, for example, such as surveys, incentive communications, data mining and other features. Transactions occurring between members and merchants, including transactions utilizing a point of sale facility 12, may be recorded or otherwise linked to data storage means. For example, a data storage means may be a database that may be included in one or more servers. As another example, a server farm may be included in the system of the present invention and one or more linked databases may be included as a data storage area. A skilled reader will recognize that the present invention may utilize a combination of stored data and real-time data (the real-time data may or may not be stored), and that both of these types of data may be utilized by the data mining tool. The data mining tool 14 may be operable by the loyalty engine, and may be utilized by members, merchants, the administrator, an intermediary, or any third party that is provided specific access to the data mining tool.

In one embodiment of the present invention, transaction linking utility 16 may be utilized to compare transaction details regarding a merchant and/or member with stored data, for example, such as a member or merchant profile. In this manner a transaction may be confirmed to be between a specific merchant and a specific member. Details of the transaction may be stored in the data storage area as corresponding to the merchant and/or member involved in the transaction. For example, details of the transaction may be stored in the member profile, merchant profile, as historical transaction and/or as preferences.

The transaction linking utility may also be utilized to identify a specific member that may be eligible for one or more merchant incentives based upon a transaction. For example, the transaction linking utility may utilize search information, member information including other recent transactions between the merchant and the member (e.g.,

assume member is likely to engage in future transactions with the merchant), frequency of transactions between the merchant and the member (e.g., member may be eligible for an incentive, which may be an increased discount or other augmented incentive, based on either frequent transactions with a merchant, or a particular number of past transactions with the merchant), and the amount of money spent in any transaction between the member and the merchant (e.g., member may be eligible for an incentive, which may be an increased discount or other augmented incentive, based on an amount of money spent in a transaction with the merchant), as well as any other post-transaction comments. Such parameters may be incorporated into a rule and the transaction linking utility may function in partnership with an analytics mode to identify member eligibility for an incentive.

An incentive may be communicated to a member through a variety of means, including a communication to a mobile device (e.g., a text, twitter, etc.), an email, a mailing, a telephone call, or any other means. The incentive may also be in many different forms, a sweepstake entry, a discount, a donation to a charity, rewards points, a coupon, or any other incentive form or combination of incentive forms (e.g., a donation to a charity and a discount, etc.).

In one embodiment of the present invention, search details regarding searches by a participant for a merchant, a product, a community group, communication of an incentive, or other information, may also be tracked and stored by the marketing system. These search details may be utilized by the transaction linking utility to link a transaction to a search and/or an incentive. Search details may also be utilized to generate other information and/or reports, such as member preferences.

For example, a member may utilize the loyalty program engine of the present invention, accessed by the member through a web page, to initiate a search for a particular merchant and/or product. The transaction linking utility may track certain aspects of the online activity of the member, for example, such as the clicks by the member, the time the member spends on the merchant's web page, and any repeat clicks.

The present invention may involve a web-environment, or other inter-connected networked environment, wherein an operator of the marketing system can capture browsing and searching activities of a user. The browsing and searching may be web-browsing and web-searching activities. Data collected relating to browsing and searching by a user may include click activity, such as the webpages, specific information, or links clicked on by a user.

Data collected relating to browsing and searching may further include any copying, tagging, pasting, marking, and/or highlighting of information on a webpage or other page in the environment where the browsing and searching occurs, including any activity whereby information is stored to a library, a wish list, or any other information extraction activity. In one embodiment of the present invention the activities to copy, tag, paste, mark, highlight, store to a library, add to a wish list, or otherwise extract information may indicate heightened interest in particular information. The marketing system may identify such activities as indicating search or browsing activity that is more meaningful and therefore has as increased significance over searching and browsing without any copying, tagging, pasting, marking, highlighting, storing to a library, adding to a wish list, or otherwise extracting information. The increased level of significance may be recognized by the present invention and

applied to activities of the marketing system, such as the analysis processes of the present invention.

In one embodiment of the present invention a means may be provided whereby a user may store any copied, tagged, pasted, marked, highlighted, or otherwise extracted information for easy access by the user in the marketing system environment. A skilled reader will recognize that a number of means may be applied, such as the provision of a wish list, a memo area, a library area, or any other means of storing specific information, preferably in an organized and easily accessible manner.

All browsing and searching related activities may be captured by the marketing system. In embodiments of the present invention the browsing and searching may occur through the use of a variety of communication devices, for example, such as a smart phone, a cell phone, a PDA, a tablet, a laptop, or other types of communication means. The browsing and searching data may be analyzed by the marketing system. Analysis of the data relating to may reflect in particular browsing and searching behaviours of the user and/or member undertaking the browsing and searching.

Embodiments of the present invention may include elements operable to support semantic searching. For example, a web search that is directed to a coat may be recognized by the marketing program to represent a search for a coat, as well as a search for related relevant terms, such as outerwear. In this manner the marketing system may recognize the relevance of particular searches and browsing broadly and may utilize this recognition in other operabilities of the marketing system, such as the determination of the likelihood or certainty of a match between a search and a transaction, as described herein.

The browsing and searching behaviours of members and/or users may further be identified as being related to other demographic or other attributes of the members and/or users. For example, the browsing by a member may be recognized as having relevance to the behaviours of the member, so that certain merchants, products or services are indicated as being of interest to the member, and those interests may further be related to a specific demographic or attributes of the member, such as the age of the member, the location where the member lives or works, or any other demographic or attributes of the member. The browsing and searching of a user who is not a member of the marketing program may also be analyzed, but the information to apply to this analysis may be less rich than the information applicable to the analysis of the browsing and searching by a member, due to the information available in the member profile, which is not available for a user who is otherwise unknown to the marketing system.

Information related to the searching and browsing and activities pertaining to the searching and browsing may be captured for the purposes of the marketing program for searching and browsing that occurs within the marketing program environment, as well as some searching that occurs in the environment of a third party, for example, such as a search provider or search engine operator. In embodiments of the present invention, searching and browsing facilities will be offered to members and other users within the marketing environment. A skilled reader will recognize the number of ways that searching and browsing facilities may be offered in the marketing program environment and how the browsing and searching information and related activity information may be captured by the marketing program.

For example, a third party search provider may form an agreement with the operator of the marketing program to allow the third party search facilities provided by the search

provider to be integrated with the marketing program, so that the browsing and searching activities utilizing the third party search facilities may be accessed and utilized within the marketing program. As another example, an agreement may be formed between a third party search provider and the operator of the marketing program to create and support a link between the marketing program and the search facilities of the search provider, whereby the access to and use of the search facilities appears seamless to the user and/or member undertaking searching or browsing. As yet another example, a marketing program may include searching and browsing facilities that are part of the marketing program itself and are not provided by any third party. In all of these examples, the searching and browsing information, including any behavioural or other activity related information, will be gathered by, or transferred to, the marketing program.

Alternatively, or in conjunction with any of the search facilities examples provided herein, an agreement may be formed between one or more third party search providers and the operator of the marketing program, whereby a user may undertake searching and browsing outside of the marketing program environment. The one or more third party search providers may transfer data relating to searching and browsing, and any related activities, to the marketing program. The transferred data may be analyzed to determine if the data relates to any of the members or merchants of the marketing program. Data identified as relating to members or merchants of the marketing program may be stored in the data storage area or otherwise utilized by the data mining tool, the transaction linking utility and/or the analytics mode to undertake the functions of these elements of the present invention as described herein.

In some embodiments of the present invention particular benefits may be offered to merchants and members if the searching and browsing occurs within the marketing program environment. Searching and browsing conducted from within the marketing program may not be limited to merely the content available in the marketing program, or webpages of merchants that are participants of the marketing program. In embodiments of the present invention searching and browsing occurring within the marketing program may include linking to and otherwise accessing content and pages available from the Internet generally.

A skilled reader will recognize that the benefits and advantages offered by searching and browsing in the marketing program environment may offer motivation, or other encouragement to members to conduct searching and browsing in the marketing program environment. One such benefit is access to incentives provided in the course of searching and browsing, as described herein.

As another benefit, in one embodiment of the present invention a merchant may sponsor browsing and searching undertaken by a member, or by members having particular attributes or being within a particular demographic. For example, a merchant may pay to have an advertisement displayed on a webpage that is accessed during searching and browsing. The advertisement may be for the merchant, for a product or service, or for an incentive such as a donation to a community project based on a purchase or click activity during the searching and browsing. As an example, a merchant located downtown in a city looking to increase purchases by suburban members, may pay to have an incentive or advertisement appear on a webpage while suburban members are searching or browsing, and may by the activity of paying for the advertisement effectively sponsor the browsing and searching of the member. A skilled reader will recognize the wide range of means by which a

merchant may sponsor browsing, and how the sponsorship of browsing may be directed towards an individual member, or to a group, category, or class of members, such as members having like attributes or demographics.

Another benefit may be that searching and browsing occurring within the marketing program environment may cause the collection and generation of a richer data collection regarding the searching and browsing and all activities related thereto. This may occur because more data is collected with the searching and browsing occurs within the marketing program environment than is collected when searching and browsing occurs outside of the marketing program environment. In particular, the marketing program may have the ability to control the level of data collected relating to searching and browsing when the searching and browsing occurs within the marketing program environment. This may assist in maximizing the collection of data achieved by the marketing program. The increase in the richness of data collected when searching and browsing occurs in the marketing program environment may be an advantage as it will enhance functions of elements of the marketing program, such as the data mining tool, transaction linking facility, analytics mode, and any analysis undertaken by any of these elements, for example, such as member behaviour analysis.

Browsing and searching within the marketing program may also have the benefit of facilitating the ability of the marketing program to collect data regarding the conclusion of browsing and searching sessions. For example, the analytics mode of the present invention may be operable to determine the reason for the conclusion of browsing and searching sessions. The analytics mode may be able to determine if a member logged out of a browsing and searching session, if a member walked away from a browsing and searching session, if a member navigated outside of the marketing program environment, or if a member ended the browsing and searching session for some other reason. A skilled reader will recognize the variety of determinations the analytics mode may make regarding the cause for the end of a browsing and searching session and how such determinations may add to the behavioural data that the analytics mode can generate relating to members.

The benefits and advantages that may be created by searching and browsing being conducted within the marketing program environment may have other effects. For example, members may undertake to conduct the majority of their pre-transaction searching and browsing, and other searching and browsing, in the marketing program environment. This may have an effect upon the amount of searching and browsing occurring in third party search provider environments and thereby have a marketplace effect as members are motivated to search and browse in the marketing program environment due to the benefits achieved by doing so. Additionally, the significance of searches and browsing occurring in the marketing program may be recognized to indicate a greater interest on the part of the user and/or member to undertake searches towards a future purchase, instead of merely searching and browsing without any intent to purchase. The intent to purchase may be affected by incentives that are either communicated to the user or member based upon the click activity and links accessed, or through advertisements appearing in areas accessed by the browsing and searching. Other factors may also cause the intent to purchase level to be increased generally for members undertaking searching and browsing in the marketing program environment. This increased intent to purchase

could be applied as a factor in the determination of the likelihood or certainty that a search is linked to a later transaction.

In embodiments of the present invention, a qualified web environment may be created. In such an embodiment the whole of the marketing program environment may be incentivized in one or more ways.

One or more incentives may be provided to, communicated to, or otherwise made accessible by a user or member during browsing and searching. The provision of, communication of, or other access to, one or more incentives may occur at a variety of points during the browsing and searching. For example: one or more incentives may be displayed on a webpage as an advertisement; one or more incentives may be made accessible to a user or member upon a click upon the incentive; one or more incentives may be communicated to a communication device of a user or member, such as a smart phone, a cell phone, a PDA, a tablet, a laptop, or other types of communication means; or other communications or incentives or access to incentives may be possible. The incentives provided to, communicated to, or made accessible by the user or member may be of benefit to either the user or a community program, or an intermediary. For example: an incentive may be a coupon for redemption at a merchants providing a benefit to a user or member; or an incentive may be a donation to a community program that is made upon a transaction, or possibly even made based upon click activity or other browsing or searching behaviours or activities. A skilled reader will recognize that a variety of incentives may be provided, communicated or made accessible to a user or member in a manner related to the browsing and searching activities or other behaviours.

In another embodiment incentives displayed to, provided to, communicated to, made accessible to, or otherwise offered to the users or members during browsing or searching may be specific to the member or user. For example, an incentive may be one of several incentives that a merchant is offering to users or merchants. The determination to offer any incentive to a member or user may be based upon any details relating to the user or member recognized by the marketing program, such as: searching and browsing activities or other behaviours; attributes; demographic details; prior transaction history; prior searching history; semantic searching; or any other details which may be derived from user or member behaviours, activities or any stored information of the marketing program relevant to the user or member, or relevant to the browsing or searching activities or behaviours. The incentive may therefore be chosen to be offered to the user or member so that the incentive is specific to the user or member or to the browsing and searching. Providing an incentive to a user or member in a directed manner may increase the likelihood that the incentive will be accepted or otherwise redeemed by the user or member. For example, a user or member may: accept that an incentive that is a donation be made to a community member; download an incentive that is a coupon and redeem this either at a merchant's online or bricks and mortar store; or may otherwise utilize an incentive.

In embodiments of the present invention, incentives may be offered to a user or member during browsing and searching, as a result of browsing and searching, through other off-line media (e.g., newspapers, radio, television, etc.), at a merchant store location (including a bricks and mortar store or an online store, and based upon a transaction, as the result of multiple transactions, or for any other reason); or at any other location, including a community program location or

event. A skilled reader will recognize the wide variety of incentives that may be offered to users and members.

A skilled reader will recognize that while some of the examples in this application discuss searching or browsing for a merchant, it is also possible to search or browse for a product or service. Therefore, searching and browsing activity may not only access a website of a merchant, but may instead access an online store, a catalogue, or another web environment where information or a link regarding a product or service is made available. All of the functions of the marketing program related to searching and browsing may be instigated if a user or merchant accesses a website environment other than a merchant website, or accesses merchant websites as well as other website environments during searching and browsing.

In one embodiment of the present invention an incentive may not be offered to a user or member during searching or browsing. However, as discussed herein, other benefits, and advantages offered by searching and browsing from within the marketing program environment may motivate users and members to conduct searching and browsing from within the marketing program environment.

As shown in FIG. **8**, in one embodiment of the present invention a user **80**, such as a member, may utilize a communication means, such as a laptop, operable to access a search engine **82**, such as a search engine accessed via an online means (e.g., the Internet, an intranet, or other online means), to generate a query. For example, the member may query to find a bike store located in a specific geographic region. The search engine may be provided by the marketing program or may be otherwise linked to the marketing program, so that the query results include at least one bike store that is a store of a merchant of the marketing program. The user may choose the merchant's bike store, by clicking on a link to the merchant's bike store appearing in the query results, or by any other means of choosing the merchant's bike store provided by the communication device. As an alternative, the user may search for bikes, and link through a set of click activities to a particular bike that is a product of a merchant of the marketing program. For example, the bike may appear in an online catalogue, or other webpage or form of information communication.

As mentioned above, the user may further highlight information about the merchant's bike store, or a particular bike, or otherwise extract related data. This may cause the system to recognize a heightened interest in the bike on the part of the user than is indicated by clicking on links whereby the bike may be viewed, or other activities relating to the bike. The indication of heightened interest in the bike may be utilized by the marketing system in its determination of the likelihood or level of certainty of a link between a search and a later transaction, as described herein.

The marketing system may undertake steps to recognize that the user is accessing the merchant's bike store online information, for example, such as accessing the merchant's bike store website. An incentive may be provided by the merchant to the user, for example the incentive may be communicated to a communication means specified by the user. The communication means may be the same communication means the user utilizes to perform the query, or may be another communication means indicated by the user. The communication means where the incentive should be sent may be set in the user's profile, or may be indicated by the user while the user is accessing the marketing program, or the merchant's bike store information. For example, the incentive may be a discount on the price of a bike commu-

nicated to a blackberry **84** as indicated by the user while the user is browsing the merchant's bike store website.

Once the incentive is communicated to the user the user may take the incentive to the merchant's bike store **86**. The user may utilize the incentive and redeem it for a discount on a bike **88** during a transaction at the merchant's bike store. Details regarding the transaction may be transferred to the marketing program **90**. A further incentive may be triggered when the details regarding the transaction are received and processed by the marketing program. For example, the further incentive may be an incentive such as a prize entry, or a donation **92** to a community program. The marketing program may match the transaction details to the search behaviour of the user if the user is a member of the marketing program. For example, based upon the transaction details that indicate that the member acquired an incentive that is communicated to users that access the member's bike store website, it can be assumed that the transaction resulted from the user query.

A post-transaction survey **94** may be generated and communicated to the user if the user is a member of the marketing program. For example, the survey may be communicated to the member the next time the member logs into the marketing program, such that the survey appears as a pop-up on the sign-in page after log-in, or the survey is accessible by a link shown on the sign-in page, or so that the survey is available to a member that is signed into the marketing program via some other means. Alternatively, communicated to a communication means belonging to the member or a user that is not a member, and be available to the user on that communication means, for example, such as a communication means indicated by the member in the member's profile or a communication means indicated by the user at another point, such as during the transaction, that is capable of accessing a communication, such as a blackberry message, an email, a text, or some other communication.

The post-transaction survey may be completed by the member and the information included in the survey may be processed by the marketing program. For example, the post-transaction survey information may be processed to indicate a link between the transaction and any earlier activity, such as the query by the user, or any other activity. The information in the post-transaction survey may be utilized to confirm the transaction behaviour of a user. This information may be stored by the marketing program and may be provided to the merchant, or other participants of the marketing program, in a variety of forms upon a variety of events, for example, such as the generation of a report by the merchant. The merchant may use this information to develop effective incentive programs, to evaluate the success of incentive programs, or for other purposes.

In one embodiment of the present invention the time elapsed between member online activity on a merchant web page, such as the query or search for the merchant's web page, and a transaction between the member and the merchant may be evaluated by the transaction linking utility. A maximum time lapse between a user's online search of a merchant and a subsequent transaction by the user at the merchant's store may be recognized by the marketing program. The maximum time lapse may be input by the merchant, or may be generated by the marketing program, or may be otherwise set in the marketing program. For example, the maximum time lapse may be generated by the marketing program in accordance with the merchant type, the item that is searched, the merchant preferences, or any combination of these. Other rules for matching a query or

search to a transaction may be set, stored and utilized by the marketing program. Such rules may be modified at any time. In particular, the rules may be modified in accordance with the experience of a merchant. A merchant may also override the rules in specific circumstances.

The amount of time allowed for a maximum time lapse may further be member specific. For example, the marketing program may recognize that a longer period of time elapses between a member undertaking searching and browsing activity and a transaction for the merchant or item searched than the maximum time lapse allows. This extended period of time may indicate that a member has a reason which prohibits him or her from travelling to a store in a timely manner after searching and browsing an item or merchant. For example, the member may be a professional who has a work-schedule that prohibits frequent shopping. If the marketing program determines that transaction occurs following searching and browsing activity outside of the maximum time lapse for such a member, the marketing program may determine that there is still a likelihood of a match between the searching and the transaction in the case of this specific member based on past member behaviour. Therefore, the marketing program may adjust the maximum time lapse to a longer period relative to the historical data relating to the particular member.

The location of a member in relation to the location of the merchant store may also be a factor that is considered when determining a reasonable time lapse between the search and the transaction. For example, if the store is identified by the marketing program as being a significant distance away form the location of the member, the maximum time lapse may be extended to recognize searching and transactions occurring at periods in time more distant than the maximum time lapse as having a likelihood of matching.

The time and date of a search in relation to a transaction may also be a factor that is considered when determining a reasonable time lapse between the search and the transaction, in accordance with historical data relating to searches and transactions by a member. For example, a search undertaken by a member on a Sunday night and a transaction occurring on the following Saturday, or at another day that is beyond the maximum time lapse, may be recognized as having a likelihood of being a match if the member transaction history shows the member only shops on alternate weekends, or in another such pattern of time.

The type of communication devices utilized for searching and browsing prior to a transaction may also be a factor that is considered when determining whether there is a link between a search and a transaction. For example, if the search occurs on a communication device that is portable, such as a smart phone, a cell phone, a PDA, a tablet, or other types of portable communication means, this may indicate that the search is made on the fly. This may further indicate that the search is related to a need that is recognized while a user or member is travelling. Therefore, the use of the device may indicate an increased intent to purchase a product or service, or to shop at a particular merchant's store. For example, the search may be conducted while a user or member is already out shopping and has realized that they need another product or service. Therefore, the use of certain portable communication devices to conduct a search may indicate a different level of purchase intent and may also indicate a different reasonable time lapse for a user or member to make a transaction based upon a search. Such an application of the marketing program may further recognize the distance between the user and/or member and the location of the merchant store that was searched, or is where

a searched product or service is available. If the distance is determined to be significant than a longer period of time lapse between the search and a transaction may be deemed acceptable to indicate that the transaction is a result of the search.

As skilled reader will recognize that a variety of factors may be utilized to determine if a transaction is likely to have been the result of a search. These factors may differ for specific members, based upon prior data collected by the marketing program and analysis of this data to indicate member behaviours. A skilled reader will also recognize the richness of rules and tools that the marketing program may utilize to undertake the analytics involved in matching transactions and searches and indicating likelihoods or certainties of relationships therebetween.

In embodiments of the present invention a transaction may occur online (e.g., via a website) or offline (e.g., at a brick and mortar store location, or at another physical location where the merchant is selling products or services such as, for example a kiosk, booth or other location). The tracked information may be utilized by the transaction linking utility to determine if the transaction represents a sale that occurred as a result of the search request by the member that resulted in the member arriving at the merchant's web page. A post-transaction survey may also be provided to verify that the transaction occurred as a result of the search. A skilled reader will recognize that a variety of variables may be utilized by the transaction linking utility to determine if a transaction occurs as result of a member's search on the marketing system, and that these variables may be governed by rules, or other means implemented by the marketing system.

In one embodiment of the present invention, the marketing program may utilize the transaction linking utility to estimate matches between a member's, or other user's, searches, search engine click stream and the member's or user's transactions at the merchant. Such estimate of matches may be undertaken to produce variable degrees of certainty for the match, or likelihood of a match between a search and a transaction. Examples of the certainty that may be indicated by varieties of searches, search engine click stream and transactions, include the following:

a single search by member or a user of a merchant's website or other information pertaining to that merchant that is followed by a transaction at the merchant's store (either an online or offline store) and a post-transaction survey is not provided corresponding to the transaction may be considered to indicate a low level of certainty that the transaction occurred as the result of the search by the member or user of the merchant's website or other information pertaining to that merchant or the merchant's products and/or services;

a single search session by a member or a user of a merchant's website or other information pertaining to that merchant that includes multiple clicks on marketing system information (for example, such as a member or user clicking to select a merchant then clicking to accept an incentive offered by the merchant) that is followed by a transaction and a post-transaction survey is not provided corresponding to the transaction may be considered to indicate a moderate level of certainty that the transaction occurred as the result of the search by the member or user of the merchant's website or other information pertaining to that merchant or the merchant's products and/or services;

multiple related searches (for example, such as searches of the website or other information relating to the same

merchant undertaken by the same member or user across multiple search sessions) occurring prior to a transaction between the member (or user) and the merchant that was searched and a post-transaction survey is not provided corresponding to the transaction may be considered to indicate a moderate level of certainty that the transaction occurred as the result of the search by the member or user of the merchant's website or other information pertaining to that merchant or the merchant's products and/or services;

any search by a member or a user of a merchant's website or other information pertaining to that merchant, the search being followed by a transaction that a post-transaction survey is provided for that confirms that the transaction occurred as a result of the search may be considered to indicate a high level of certainty that the transaction occurred as the result of the search by the member or user of the merchant's website or other information pertaining to that merchant or the merchant's products and/or services;

a transaction between a member or user and a merchant that is not preceded by any search by the member or user of the merchant's website or other information pertaining to that merchant may be considered to indicate that the transaction did not occur as the result of any search by the member or user of the merchant's website or other information pertaining to that merchant or the merchant's products and/or services; and

a transaction between a member or user and a merchant that is preceded by a search which included the member or user highlighting or otherwise extracting information regarding a product or service that is part of the transaction may be considered to indicate a moderate level of certainty that the transaction occurred as the result of the search by a member or user pertaining to that merchant or the merchant's products and/or services.

In one embodiment of the present invention, it may be possible for the marketing system to recognize that items purchased with a searched item may also be linked to the original search. For example, a user or member may search for a coat sold by the merchant. Later the user or member may purchase the coat through a transaction at the merchant's store. Other items may be purchased in the same transaction by the member or user. The other items purchased with the coat may be recognized by the marketing program to have occurred as a result of the search for the coat. Tracking the purchase of the extra items besides the coat may provide a means of capturing information related to the purchasing behaviours of the user or member purchasing the coat and the other items. This information may be utilized for the purpose of other analyses conducted by the present invention.

As another example, the search may involve the communication of an incentive to a member. In this embodiment of the present invention, a member, or other participant, may login to the marketing system website. The member may be considering purchasing a particular item, such as a bicycle, and consequently may utilize a search option to look for merchants who are members of the marketing system and are bicycle sellers. The member may also search bicycles, and the search may involve merchants of the marketing system. The present invention may recognize that the search occurred (as described in this application the search may occur online through a search provider that is linked to the marketing system, or a search provider that is not linked to the marketing system, or by other search means). The results

of the search may either present an incentive to the member on the webpage, or may cause an incentive to be communicated to the member by some other means, such as to a member's mobile device, to the member's email address, etc. If the member later purchases the bicycle, either online or at the physical location of the merchant's store, and redeems the incentive, this information will also be stored in the present invention data storage area. The transaction linking utility may be utilized to provide results that indicate that the search for the bicycle and the purchase of the bicycle occurred within a period of time that would suggest a link between the search/incentive and the purchase.

Identification of the link between the search/incentive and the purchase may indicate that the incentive may have influenced the transaction. Data reflecting that the incentive influenced the transaction may identify the incentive as successful to cause the transaction. Such data may be utilized evaluate the overall success of a particular incentive. An evaluation regarding the success of a particular incentive may be useful when either the merchant or the marketing system considers suggestions for possible new incentives.

In one embodiment of the present invention, the search for a particular product may occur outside of the marketing system. For example, the search provider operating the system where the search occurred outside of the marketing system may make use of an Application Program Interface, or another electronic data transfer means to send information to the marketing system. The marketing program may process the information received from the search provider. It may also be possible that multiple search providers may operate within the marketing system, and that multiple search engines may be used by users or members outside of the marketing system and that the search information relating to these search providers and search engines may be transferred to the marketing system for processing.

In another embodiment of the present invention, the incentive offered to a member may be dependent upon the existence of any link between the marketing system and the search provider. This means that more than one incentive may be developed to be offered to members. A member will be required to provide one or more identifications, or participant identifiers, to the search, whereby the search will recognize the user as a member of the marketing system. In one embodiment of the present invention the provision of one or more identifications pertaining to a member may be facilitated by the marketing system in a manner whereby the provision of the one or more identifications appears as seamless to the member utilizing the marketing system.

Should a member utilize a search provider that is not connected, or otherwise linked, to the marketing system to search a product, the marketing system may cause a particular incentive to be communicated to the member pertaining to the purchase of the searched product and/or other products. However, should a member utilize a search provider that is connected, or otherwise linked to the marketing system, such as, for example, a search provider accessible from one or more of the marketing system webpages, a search provider that is affiliated with the marketing system, or a search provider that is otherwise connected or linked to the marketing system, a different incentive may be offered to the member pertaining to the purchase of the searched product and/or other products.

As an example, use of a search provider that is not linked to the marketing system may result in the provision of an incentive that is a price reduction of 10%, whereas use of a search provider that is linked and/or connected to the marketing program may result in the provision of an incen-

tive that is a price reduction of 30% and/or a donation equivalent to 15% of the price of the product to a community program. In some embodiments of the present invention the incentive provided as a result of a member utilizing a search provider that is connected or otherwise linked to the marketing system may offer greater rewards to the member than the incentive provided as a result of a member utilizing a search provider that is not connected or otherwise linked to the marketing system. A skilled reader will recognize that a variety of incentives may be offered both to members that utilize a search provider linked or connected to the marketing program as well as to member that utilize a search provider that is not linked or connected to the marketing program.

An incentive may also be communicated to a member, or other participant, without a search being undertaken. Incentives may be displayed on a webpage or communicated to a member by another means, such as via a mobile device, email, through the mail, announcement at an event the member attends, or any other means. The marketing system may store information indicating the date and/or time of the communication of the incentive to the member. The marketing system may further be able to identify the redemption of the incentive. Should the redemption of the incentive meet particular criteria in relation to the communication of the incentive, such as, for example the redemption of the incentive, which may be in conjunction with a transaction, occurs within a specified period of time after the communication of the incentive to the member, then the marketing system may identify the transaction as being influenced by the incentive.

A skilled reader will recognize the variety of searches that may be facilitated by the marketing system and the variety of results, and uses thereof, that may be facilitated by the transaction linking utility, the data mining tool and may involve the analytic mode. A skilled reader will further recognize the variety of data rules that may be set to indicate a link between a transaction and other member behaviours or activities, such as searching for an item online.

In one embodiment of the present invention an analytic mode may be engaged to function in connection with the transaction linking utility to produce reports, reviews or other feedback for participants interested in identifying instances where a transaction occurred as a result of a search by a member undertaken by the marketing program.

As shown in FIG. 2, the system may be linked to a variety of communication means 20, for example, such as a smart phone, a cell phone, a PDA, a tablet, a laptop, or other type of communication means, whereby details may be uploaded and downloaded from the loyalty engine. For example, the system may be linked to a smart phone belonging to a member, whereby incentives may be disseminated to the member via the smart phone. In this manner a coupon 22 may be disseminated to a member and communicated by the loyalty engine to the member's smart phone. The coupon may further include a bar code, a unique reward identifier, or other intelligent information.

Additionally, information entered into a communication means, such as a smart phone, may be transferred to the loyalty engine and ultimately stored in the data storage area. For example, a survey may be disseminated to a member whereby the survey is available to the member on the member's smart phone. Responses to the survey made by the member via the smart phone may be transferred to the loyalty engine and thereby stored in the data storage area. A skilled reader will recognize that data may be transferred to

and from the loyalty engine, to merchants, members, intermediaries or any other third party.

Administrator Registration, Interface and Functionalities

In one embodiment of the present invention, the marketing program may be hosted by an administrator. Said administrator may be an individual or an organization. Access to the marketing program, including access to some and/or all data may be provided to an administrator. Generally the administrator access to the marketing system may differ from access provided to others: access to the marketing system, including access to anonymized data may be provided to merchants and members; and limited access to the marketing program may be provided to third parties and/or intermediaries. The marketing system may be operable to allow an administrator to input particular data, including data pertaining to community programs.

The administrator may undertake a search for community programs. This search may utilize information available via the Internet, other databases, telephone services (such as those provided by some municipalities, media outlets, etc.), and other data sources. The administrator may also be provided information regarding community programs by third parties.

All details relating to the community programs may be stored in the data storage area of the marketing program. The data mining tool may be utilized to provide reports or lists providing information related to the community programs, for example, such as a list of community programs in a specific location (e.g., a town, a city or a borough, etc.).

In one embodiment of the present invention, the administrator may utilize the administrator access facilities of the marketing system to provide information to a merchant regarding community programs occurring, or about to occur, in a location nearby to one or more of the merchant's stores, or information regarding members. A merchant may utilize this information to develop incentives relating to one or more of the merchant's stores. The incentive may be a coupon, sales discount, give away, sweepstakes entry, donation to a community program, or any other incentive. The incentive or information regarding the incentive may be disseminated to a member.

The marketing system may also be operable to allow the administrator to generate lists, reviews, reports or other information to be provided to prospective merchants, members and/or intermediaries to cause them to consider registering with the marketing program.

In some embodiments of the present invention, a fee may be charged for any request for information, lists, reviews, reports generated by an administrator. A skilled reader will recognize the variety of types of fees that could be charged, such as, for example a fee for each request, a fee per lines on a report, and other types of fees.

Merchant Registration, Interface and Functionalities

A merchant may join the marketing program by registering. A merchant may be an online merchant, a merchant having one or more brick and mortar locations, or any other merchant. A merchant may identify the location of any bricks and mortar locations to the marketing system along with other merchant profile information. Merchant profile information may be provided to the marketing system at the time of registration as well as at points in time after the initial registration occurs.

A registration interface may be provided to the merchant via a web page, via a mobile device, or via any other means. The merchant information may include a variety of information, for example, such as a merchant participant identifier, the location of the merchant's store(s), the merchant's

target clientele, etc. The merchant information may allow the marketing program to link a financial card or other billing system to the merchant.

As shown in FIG. 3, a merchant 36 may register with the marketing program of the present invention to become a participant. Registration may be facilitated by one or more registration means as described in more detail below. Registration may further occur through an interface 32, for example, such as a web page, etc. Information regarding the merchant, for example, such as the merchant's name, its store locations, its website and web page information, and other details may be provided by the merchant at registration, or at any later point, and stored in the data storage area 38. A merchant may develop merchant incentives, and may communicate these to members through a variety of means 39, including the marketing system web-pages, any merchant and/or intermediary web pages, social media (e.g., web pages, Facebook™, Twitter™, etc.), local media (e.g., radio advertisements, print media, television broadcasts, etc.) and through relationships with community programs (e.g., the community program promotes the merchant, for example, such as through a link from the community program website to the merchant's website, use of the merchant's logo or brand on community program materials, announcements of merchant incentives at a community program event, etc.). A skilled reader will recognize the variety of options that may be used to communicate an incentive to participants and/or third parties.

In one embodiment of the present invention, the marketing program may provide an automated online boarding means or a manual boarding means. For example, a merchant having an existing registered merchant identification with another pre-registered financial program may be provided with a registration interface by the present marketing program, for example, such as a web page. The interface may include a means whereby merchant transactional information and preferences may be imported from the pre-registered financial program to the marketing program. The imported information may be stored in the data storage area as part of the merchant profile.

As an example, the imported information may include the merchant identification (such as an identification number), credit card information, or automated clearing house billing information already linked to a database. Additionally, the one or more forms of payment used with the pre-registered financial program may also be linked to the marketing program as tokens. Said tokens may be used to track transactions made with the associated forms of payment.

The information regarding the location of one or more bricks and mortar locations of the merchant may be utilized to determine relationships between one or more community programs and the merchant, in particular any merchant location in the vicinity of the community program. The data mining tool, and in some instances the analytic mode, of the present invention may be utilized to provide a list of community programs occurring in the same location as one or more of the merchant's locations. A merchant may request a more general list as well, showing all community programs in a city, province, country, or other information.

A merchant may also request a list of members, based on a variety of criteria, including proximity of the location of a member to one or more locations of a merchant, member preferences, member age, or other member information. A skilled reader will recognize the variety of criteria that may be applied to a member search undertaken by a merchant, such as, for example, demographic or preference information as reflected in the marketing system data stored in the

data storage area. This information may be utilized to determine the members that an incentive will be communicated to. The information may also be used to create new incentives.

In some embodiments of the present invention, a fee may be charged for any request for information or search submitted to the marketing system and/or administrator by a merchant. A skilled reader will recognize the variety of types of fees that could be charged, such as, for example a fee for each request, a fee per lines on a report, and other types of fees.

In one embodiment of the present invention, the data mining tool, and in some instances the analytic mode, may be utilized to provide suggestions of possible new incentives to merchants. The transaction linking facility may be utilized to provide analysis or evaluations that may also be applied by the data mining tool or analytic mode to generate new incentives and suggestions of new incentives for merchants. This feature of the present invention may utilize any of the data and/or information in the data storage area, it may also: recognize incentives utilized by merchants in the past; recognize the success of some past incentives; evaluate the success of an incentive and the community program that the incentive is to be used with; and further incorporate other information and criteria. The result may be one or more suggestions of incentives that a merchant may utilize at a particular point in time. It may be at the discretion of the merchant to adopt and utilize one or more of the suggested incentives, or not to adopt or utilize any of the suggested incentives. For example, a merchant may allow automatic approval of system generated incentives, and whereby the marketing system undertakes the approval of system generated incentives. A skilled reader will recognize that a variety of criteria and information may be utilized by such a feature of the present invention.

The incentive may provide an inducement for the member, or other customers, to visit the merchant's store locations (or online website) where the incentive is offered and redeemable. The merchant may thereby increase the number of customers, the notoriety of the merchant's store, sales, goodwill, etc. The incentive may also produce a benefit for the community program if it is linked to a community program by, increasing awareness of the community program, increasing attendance at a community program, increasing donations to the community program, etc. Specific benefits accruing to any of a community program, merchant, member and/or any intermediary may be recognized by a report, review, results, list, etc., provided by the data mining tool, or the transaction linking utility in some instances.

Incentives may be created to be redeemed upon a variety of events and/or activities. For example, an incentive may be provided to a member and/or an intermediary based upon a transaction. In this example, the incentive may be provided upon a transaction occurring, or may be provided to attempt to cause a transaction to occur. Such an incentive may be a discount on a purchase price of a product or service to a member, a give-away to a member, a sweepstakes entry and/or a donation to a community program.

In one embodiment of the present invention, it may be possible for the incentive that is provided to a participant based upon a transaction to be different depending on various circumstances. For example, the incentive may be different for a participant who has had frequent transactions and/or recent transactions (e.g. frequent and/or recent transactions with a merchant, or group of merchants, or frequent transactions as a marketing program participant), than the incentive provided to a participant who is making a first transaction, makes infrequent transactions, or has not made a recent transaction. It may also be possible for a different incentive to be provided to participants based upon the total amount of the transaction (e.g. the money spent in the course of the transaction). Yet another possibility may be that a different incentive may be provided to a participant based upon the time of day when a participant makes a transaction. Basing an incentive on the time of day may help a merchant with products or services near the end of the business day to encourage the purchase of those products or services by participants. A different, augmented incentive may also be offered based upon other criteria, such as, for example volunteer hours with a community program, etc. A skilled reader will recognize that a variety of other events or activities may cause different incentives to be communicated to a participant.

As another example, incentives may also be provided based upon the completion of a survey by a participant. Such an incentive may be: a coupon that is electronically, or otherwise, provided to a participant after a survey is completed; a donation that is made to a community program upon the completion of a survey; and/or entry in a sweepstakes. It may be possible that more than one incentive may be provided to one or more participants upon the completion of a survey. It may also be possible for particular post-transaction surveys to even result in different incentives being provided to one or more participants in accordance with the answers provided in the survey. For example, the response to an experience rating question (e.g. a request to rate an experience as excellent, satisfactory or poor) could result in a participant responding that his or her experience was poor may receive a different incentive than a participant responding that his or her experience was excellent. In particular, a participant who has ranked his or her experience as poor on several post-transaction surveys (as may be recognized by use of the data mining tool of the present invention searching for data in historical surveys) may receive a different, augmented incentive. A skilled reader will recognize that a variety of other incentives may be provided to participants upon the completion of a survey.

As yet another example, incentives may be provided based upon a member entering a specific geographical location and/or zone. Such an incentive may be provided to one or more participants upon a member entering the parking lot of a shopping centre, or any other geographical location and/or zone. The incentive may be related to the geographical location and/or zone, such as, for example a coupon for a merchant near to the zone, or a donation to a community program near the location. A skilled reader will recognize that a variety of other incentives may be provided upon a member entering a specific geographical location and/or zone. A skilled reader will further recognize that incentives may be provided to one or more participants based upon other events or activities as well.

The marketing system of the present invention may be operable by the merchant to generate incentives, to track transactions, and to provide other information relating to participants and community programs. The marketing system of the present invention may further be operable by the merchant to generate analytic information providing an evaluation of the success of past incentives and other activities of the merchant.

Intermediary Registration, Interface and Functionalities

In one embodiment of the present invention, one or more intermediaries may register with the marketing system and thereby become participants. In one embodiment of the

present invention, a participant, and particularly an intermediary, may be a search provider, financial card provider, one or more advertising associates, one or more charities, one or more public or private interest groups, marketing specialists, one or more community programs, or other groups or individuals.

Particular participants may offer unique and specific means of communicating an incentive to participants and/or third parties. Intermediaries may either work with such participants, or may provide unique and specific means of communicating an incentive to participants and/or third parties themselves.

In one embodiment of the present invention, particular marketing program access may be configured to benefit one or more intermediaries. The access provided to intermediaries, or groups of intermediaries, may differ. For example, an advertising associate may be granted access to parts of the marketing program that are necessary for the advertising associate to work with a merchant to produce an incentive. As another example, a marketing program interface may be configured to provide access to a charity to part of the marketing program. That interface may enable a member, or other participant, to select one or more charities and allocate contributions or donations to a charity, for example, such as in percentages or contribution tiers (where the first X dollars benefit supported organization A, the next Y dollars benefit supported organization Y, etc.), or a combination thereof, to one or more charities. A skilled reader will recognize that the present invention may involve a variety of other contribution priority schemes and/or a variety of marketing program interfaces to provide specific access to particular intermediaries.

In an embodiment of the present invention, one or more intermediaries may also disseminate intermediary affiliate information to the marketing program, or information regarding the marketing program and/or any merchant incentive to its affiliates. For example, an intermediary may send direct mail to its affiliates, which may represent its existing contributor base if the intermediary is a charity, or financial card holders if the intermediary is a financial card provider. A skilled reader will recognize that the affiliates of an intermediary may be different groups in accordance with the type of intermediary. The direct mail may contain a website address and a participant identifier which may be generated for and associated with the intermediary by the marketing program when the intermediary registers with the marketing program. Upon receipt of the direct mail, an affiliate may navigate to the website address, which may be a portal to the marketing program. The affiliate may thereby be granted temporary, and possibly limited access to the marketing system for a specific purpose.

The direct mailing from the intermediary may also provide the affiliate with the opportunity to register as a member of the marketing system. During the registration process, the affiliate may enter the participant identifier. The act of entering the participant identifier may cause the marketing program to automatically configure the new member's preferences in accordance with rules created to cause specific operations upon the entry of the participant identifier. For example, entry of the participant identifier may cause the member's preferences to include information to provide for specific interaction between the intermediary and the new member, the new member and a merchant, the new member and a community program, or any other interaction. The interaction may include a contribution by the member of certain benefits to the intermediary, or to another participant, at a specific period in time, or upon a specific event. The

entry of the participant identifier may further have the result that it signals to the marketing program that new member's personal information may be transferred via an electronic link to information regarding the new member available from another data source. The transferred information may be stored as part of the new member's profile in the data storage area.

In one embodiment of the present invention, at the point of registration with the marketing program, a member may identify a relationship to the intermediary. In another embodiment of the present invention, the intermediary may post a list of validated people affiliated with its organization and the marketing system may match any registering member to an intermediary list.

Members Registration, Interface and Functionalities

Individuals may register with the marketing program to become members. Registration could be facilitated by one or more registration means. For example, the individual may already be associated with a pre-registered program, such as, for example a financial program or a program of an intermediary whereby the individual is an affiliate of the intermediary. The pre-registered program may have one or more pieces of personal (identification) or demographic information associated with the individual available in a data source. A registration interface may be provided, this may include a page, for example, such as a web page, a page sent to an individual's mobile device (e.g., such as a smart phone, etc.), etc., whereby the individual approves joining the marketing program of the present invention. The registration interface may include a means for importing all personal or demographic information and preferences from the pre-registered program to the marketing program of the present invention.

In one embodiment of the present invention, if the pre-registered program involves one or more identifications the one or more identifications may also be transferred to the marketing program. For example, if the pre-registered program is a financial program one or more forms of payment linked to the pre-registered financial program could also be linked with the marketing program of the present invention to enable the marketing program to track transactions made with those forms of payment. In this manner the one or more forms of payment, or other identifications, may provide one or more participant identifiers linked to the new member for use by the marketing program. All registration data, including the one or more participant identifiers, may be stored in the data storage area, and may be accessible by the data mining tool.

As shown in FIG. 3, in another embodiment of the present invention, an individual 30 may register with the marketing program of the present invention by providing, through an interface 32, for example, such as a web page, a page provided on an individual's mobile device (e.g., such as a smart phone, etc.), or other interface, the individual's personal or demographic information. This information may include the individual's gender, the individual's age, the individual's location (e.g., home, workplace, or other location), as well as other demographic or personal information. The information may be stored in the data storage area and may be stored as a member profile. The marketing program may generate a participant identifier number for the new member. All registration data, including the participant identifier, may be stored in the data storage area 38 of the present invention, and may be accessible by the data mining tool.

In one embodiment of the present invention, a participant identifier card may be sent to the new member bearing the

participant identifier number. A skilled reader will recognize that the participant identifier card need not be a physical card, but could be any form of payment device, including for example an RFID chip, a mobile phone, etc. depending on, for example, the supporting infrastructure of merchants.

The marketing program of the present invention may be operable to receive information from the member, at the point of registration, as well as at any other point while the member is a member of the marketing program of the present invention. Profile data may be collected by way of a variety of means, for example, such as a web page, a mobile device, a survey, transactions between members and merchants, or any other means. Said profile data may include a set of rich data including information that is additional information to that which is gathered at the point of initial registration. Said rich data may include a variety of information, for example, such as a list of the social networks the member is linked to, authentication information for those social networks (e.g. member names, passwords, etc.), preferred supported organizations and merchants (as described more fully below), transaction details for transactions undertaken by the member, survey data, any reviews generated by the member (e.g., merchant reviews, product reviews, or other reviews), updated location data, search query data of searches undertaken by the member, or other information. The information may be relevant to enabling optimal usage of the marketing program.

In one embodiment of the present invention, the data mining tool may be operable to identify members who may be inclined to utilize incentives defined by merchants. This identification process may occur in accordance with the rules of the marketing program and/or the analytic mode, and may be based on administrative criteria, for example, such as demographic targeting of incentives.

The loyalty engine of the present invention may be operable to communicate the merchant incentive to the identified members.

A skilled reader will recognize that the architecture of the marketing program may enable shielding of the personal information of all members from individual merchants. Shielding may be the result of the application of a security system linked to or otherwise integrated with the architecture of the marketing program and in particular with the transaction linking facility, the data mining tool and the data storage area. The marketing program administrator may be in control of the personal information and may be the sole party having direct access to such personal information. The personal information of a member may be accessed by the data mining tool, but any review, report, list, results or other data generated by the transaction linking facility, data mining tool or analytic mode, may be devoid of identifiable personal information, for example, any results of the data mining tool may be anonymized.

The marketing system of the present invention may be operable to provide member with access to the Internet and access to one or more search engines. Said search engines may be operable to support searching by the member. The member may search for merchants or products. The search engines may be available through the marketing system, or outside of the marketing system. Search engines outside of the marketing system may be linked or otherwise connected to the marketing system. Any searches undertaken by the member utilizing a search engine may be tracked by the marketing program so that details of the search are collected by the marketing system, or if the search engine is outside the marketing system details of the search may be transferred to the marketing program due to the link or other

connection between the search engine and the marketing program. Details of the search may be stored in the data storage area. The search information may be utilized by the transaction linking facility to identify transactions based on searches and/or transaction based on incentives, as described in this application.

The loyalty engine of the present invention may be operable to permit a member to create a review of a merchant or product. The loyalty engine may further be operable to permit other participants to create reviews as well. The reviews may be created based upon a template, or in response to rules of the loyalty engine, so that the member views a template, or a set of questions and merely responds to the template or questions. The template or questions may be accompanied by an option for free-form creation of a review, such as a space where the member may type a review, or portion of a review. Reviews may be available through the marketing program so that other participants may access the reviews. For example, reviews may be available on an electronic bulletin-board, via specific webpages, via a search, or through any other means. In some embodiments of the present invention a member may be provided with an incentive or other reward by the marketing system upon the creation of a review.

In one embodiment of the present invention, one or more questions on a survey may be dynamic and may be generated to be specific to a member. For example, one or more survey questions to be included on a survey to be provided to a specific member may be generated based on data relating to that specific member stored in, or accessible by, the marketing program. As an another example, one or more survey questions to be included on a survey to be provided to a group, class or category of members (for example, such as a group of boarded members, or other groups, classes or categories of member) may be generated based on data relating to the specific group, class or category of member stored in, or accessible by, the marketing program. Still another example, one or more survey questions may be generated to gather information regarding behaviour of users or members and may be used as a source of information that provides a richer underpinning to consumer behaviour analytics of the marketing program, in particular behaviour relating to a transaction that may facilitate the analysis of the likelihood of a link between behaviour of a member or a user, such as a search activity, and a transaction. A skilled reader will recognize the other uses of survey questions directed to extract information that may be analyzed to produce behavioural data relating to a member or a user.

Yet another example of specifically generated survey questions may include questions relating to a search undertaken by a member or user that the marketing program matches to the transaction with a low, moderate, high or other level of certainty, as described above. As another example of specifically generated survey questions these may include questions generated after a member provides negative review regarding a merchant. A survey generated upon a subsequent transaction involving the member and the merchant may include questions that are devised to indicate whether the experience of the member during the transaction with the merchant improved during the subsequent transaction as compared to the transaction for which the member provided a negative review.

In embodiments of the present invention, the marketing program may be operable to support contribution priority schemes. The following represent examples of possible contribution priority schemes that may provided in embodiments of the present invention. As one example, the mar-

keting program interface may be operable to allow a member to modify his or her contribution preferences either at any time, or after particular periods of time. Another example is that the marketing program interface may be operable so that a community program, a foundation or other disseminating entity may register as an intermediary of the present invention. A member may provide a benefit (e.g., a donation or other benefit) to one or more intermediaries (e.g., the community program, the foundation or other disseminating entity), either directly, or through a merchant.

For example, as shown in FIG. **4**, the benefit may be generated based upon a transaction between a member **41** and a merchant **40** in accordance with a merchant incentive, such as an incentive that provides a donation to an intermediary based upon a transaction. Once the benefit is received by the intermediary **42** (e.g., the community program, the foundation or other disseminating entity) the intermediary may either accept the benefit, for example if the intermediary is a community program. Or, if the intermediary is not a community program or other group that is to receive any benefit, then the intermediary may disseminate portions of, or the whole of, the benefit to one or more organizations **44**, for example, such as charities, community programs, etc. The intermediary may also determine in some instances to redirect portions of, or the whole of, the benefit to an organization such as an emergency relief organization. The decision to redirect the benefit, or portions thereof, in this manner may be due to an emergency (e.g., such as the Haiti earthquake). Information outlets **48**, for example, such as the media and social networks, etc., may disseminate information about the support for the organization **46** and build goodwill for the merchant.

In another embodiment of the present invention, a member may choose to match one or more donations that are generated based upon transactions with merchant stores. For example, the member may indicate to the marketing program that: all donations based upon transactions involving the member should be automatically matched by the member through the operation of the marketing program; that donations based upon transactions involving the member pertaining to one or more specific community programs, to one or more specific merchants, or to all community programs and/or merchants, during a specific period of time (such as during a period of emergency, during a particular campaign of a community program, or during any other period of time) should be matched automatically by the member through the operation of the marketing program; or that donations based on transactions between the member and one or more specific merchants should be automatically matched by the member through the operation of the marketing program. A skilled reader will recognize that other options for a member provide a matching donation through the operation of the marketing program may also be possible.

In yet another embodiment of the present invention, an intermediary may choose to match donations generated in one or more regions. For example, the intermediary may indicate to the marketing program that: all donations based upon transactions involving all merchants should be automatically matched by the intermediary through the operation of the marketing program; that donations based upon transactions pertaining to one or more specific community programs, to one or more specific merchants, or to all community programs and/or merchants, during a specific period of time (such as during a period of emergency, during a particular campaign of a community program, or during any other period of time) should be matched automatically by

the intermediary through the operation of the marketing program; or that donations based on transactions involving one or more specific merchants should be automatically matched by the intermediary through the operation of the marketing program. A skilled reader will recognize that other options for an intermediary to provide a matching donation through the operation of the marketing program may also be possible.

As yet another example, the marketing program interface may provide to the member one or more intermediary codes that, when entered by the member into the interface, could automatically configure particular dissemination rules whereby one or more specific benefits may accrue to one or more intermediaries, charities, community programs, etc. The dissemination rules may be recognized by the loyalty engine.

A skilled reader will recognize that these examples are not exhaustive, and other possible contribution priority schemes and specific interfaces for particular intermediaries may be provided. The contribution priority schemes of the present invention may be operable to produce a transparent, accountable transfer of donations or other benefits.

Survey, Review, List, Report, Etc. Generator

To aid in the collection of data stored in the data storage area, and the generation of reviews, reports, lists, results and other data generated by the transaction linking utility, data mining tool or analytic mode, the loyalty engine may generate surveys to be completed by members or other participants of the marketing program of the present invention. Such surveys may provide questions specifically created to derive information directed to the function of the marketing system, to particular transactions or transactions generally, to any merchant, intermediary or community programs, or to any other information relevant to the marketing system. Such surveys may be provided when a participant registers with the marketing system, or at any other point in time, such as after a transaction, following a merchant incentive offering, etc. Surveys may be provided to participants by a variety of means, including through web-pages, upon logging into the marketing program, via a mobile device, as a printed survey at the merchant location, or via any other means.

In one embodiment of the present invention, a post-transaction survey may be provided to a member involved in a transaction. The post-transaction survey may include a variety of questions, but may particularly include questions regarding the influences that led to the transactions. For example, was the transaction influenced by any incentive offered by the merchant. A skilled reader will recognize the variety of questions that may be included in a post-transaction survey.

Reviews, reports, lists, results, etc., based on the surveys can be generated for merchants. For example, survey results that indicate particularly good or bad service by a specific merchant, or particularly good or bad quality of a product, or any other information, may be identified by the data mining tool and the information may be summarized, or consolidated into a review of the merchant, product, or other element to be reviewed. In this manner reviews may be automatically generated by the marketing system, alternatively reviews may be generated upon request by a participant or third party. Reviews may also be created by participants, based upon a template or in a free-form manner. Another example of a use of such information is that when other members are searching for a merchant these members may access or be provided with a copy of a review regarding

a particular merchant. A skilled reader will recognize that the use of reviews, reports, lists, results, and other documents may be wide and varied.

Local, Regional and/or National Applications

In some embodiments of the present invention, the marketing programs may operate to produce local benefits, regional benefits and/or national benefits to the participants. For example, the present invention may be operable to permit a member to participate the marketing program in one location, region, nation, etc. Yet the present invention may further permit a member who is travelling, relocating, or is otherwise interested in another location, to participate, automatically, or upon request, in the marketing program in another location, region, nation, etc. Merchants that have an international, national, multi-regional, or multi-locational presence may be associated with the marketing program. Specific store locations associated with a merchant may be recognized as existing within a specific location, so that in the locational, or regional operation of the marketing program the stores locations may be associated with the corresponding community programs of the marketing program.

For example, an incentive may be applicable to one or more store locations of the merchant. An international incentive may be applicable to a community program that is international, such as Right to Play™, and said international incentive may be honoured by all of the merchant's store locations in the world. A national incentive may be applicable to a national community program, such as the Canadian Olympic Torch Relay™, and said national incentive may be honoured at all of the merchant's store locations within a particular nation (e.g., all Canadian store locations of The Bay™). A regional incentive may be applicable to a regional community program, such as the Vancouver Olympic Games™, and said regional incentive may be honoured at all of the merchant's store locations within a particular region (e.g., all store locations of The Bay™ in the City of Vancouver, British Columbia, etc.). Smaller locational incentives may also be provided that are applicable to a more localized location, such as a festival held in a park, and said localized incentives may be honoured at all of the merchant's store locations within the specified location (e.g., store locations bordering the park where the festival is held, store locations on a street where a street festival is held, etc.).

A skilled reader will recognize that merchants of various sizes may participant in the marketing program of the present invention. The marketing program may be operable to permit a community program and/or specific merchant store(s) to associate with the marketing program and receive benefits. Neither the community program nor the merchant need have a national presence. Merchants and community programs that do not have a national presence may enjoy lower national public recognition. This lower public recognition may have resulted in reduced benefits to the community program and/or local merchant store(s), since neither may be recognized beyond a small location and therefore a small number of donators/contributors/attendees/consumers/etc. Participation in the marketing program of the present invention may provide participants with the benefit that members gain awareness of community programs and/or merchant store(s) occurring in their local area. This awareness may augment the notoriety of the community program and/or the merchant store(s). The awareness may further have other benefits, described herein, including increased attendance at a community program and/or increased sales at a merchant's store.

As described in this patent application, the present invention may have a variety of embodiments, one such embodiment may involve a merchant committing to donate a portion of its revenue from transactions at a one or more store locations involving members to a community program, said community program being local to the merchant store(s) where the transactions take place. The donation portion of the revenue amount may be based on various parameters. Said parameters may be tracked by the marketing program. The marketing program may operate so as to utilize the tracked transaction information to calculate the amount a merchant is to pay to a community program in accordance with the promised donation. The donation amounts may additionally be trackable and reportable in a clear manner upon request, so that the transfer of the donation amount is obvious and is possibly unencumbered by transfer fees. In this manner this embodiment of the present invention may enable community programs and merchants to participate in the marketing program in a manner that is cost effective to all parties of the marketing program.

In another embodiment of the present invention, the marketing program may be operable to permit a merchant to offer different contributions to designated community programs. This may involve a merchant providing multiple incentives at one or more store locations to members, and at least two of the multiple incentives being associated with different community programs. The marketing program may be operable to track the multiple incentives and/or the different contributions by merchants to designated community programs. The factors that may be tracked by the marketing program, said factors may determine the type of contribution to be made by the merchant to a community program and/or the merchant incentive to be applied to a transaction, may include one or more of the following: the time of day when a transaction occurs; the day of the week when the transaction occurs; any member demographics; any transaction history; any incentive details, for example, such as a coupon, provided at the time of the transaction; and the community program details. A skilled reader will recognize that other factors may be utilized by the marketing program to define and track contributions by merchants to community programs and/or merchant incentives.

Boarding Means

In one embodiment of the present invention, to facilitate batch customer acquisition a boarding means may be provided to operate to allow a third party and/or intermediary to associate itself with the marketing program. The intermediary may be, for example, an online retailer having a customer base with user accounts, an online payment provider also having a customer base with user accounts, an online advertiser and/or search provider, or any other online presence having a customer base with user accounts. The intermediary could also be a company and the members to be acquired by the marketing program could be the employees of the company. The marketing program may make the boarding means accessible to the intermediary by, for example, a user interface for creating the association. The intermediary may desire to associate with the marketing program for a plurality of purposes, including: increasing its own customer base to include the marketing program's members; altruistic purposes; to increase its own charitable giving for tax purposes; or to appeal to consumers and generate marketplace goodwill.

In one embodiment of the present invention, the boarding process may operate so that once the intermediary associates with the marketing program, the user accounts of the intermediary may automatically become associated with the marketing program. Once the user accounts are associated

with the marketing program each of the users is recognized as a new member of the marketing program. The marketing program may then be operable to provide a user interface for these new members, whereby the new members may complete their profiles. The provision of this user interface may occur in any of the manners described above, for example, such as through the provision of a survey, through the provision of a particular web page, or other means. A skilled reader will recognize that It this boarding process, and the acceptance of new members generally into the marketing program, may increase the awareness of the marketing program and may significantly increase its member base. As described above, this may produce benefits for the merchants, community groups, and other intermediaries participating in the marketing program.

Participant Location Facilitator and Mapping Function

All members of the marketing program may be identified by the loyalty engine of the present invention as existing in a particular location. This location may be recognized as being in the vicinity of areas associated with particular community programs. In accordance with the scope of the community programs this area may have a perimeter that encompasses a wide or narrow territory. For example, the member may be recognized as existing in a location that is within an area that is a neighbourhood, or an area that is a country. In embodiments of the present invention, it may be possible for the marketing program to recognize a member as existing in a single location (e.g., a home address), or multiple locations (e.g., a home address, a work address and/or other addresses, such as a cottage address).

In one embodiment of the present invention, a mapping means may be operable to allow a member or other participant to request a map showing merchants that are participants of the marketing program located in, or near to, an area that encompasses a location of the member. The marketing program may utilize the data mining tool to identify a location of the member from the member profile (e.g., the home address of a member), the marketing program may ask the member to choose a location if multiple locations are in the member profile (e.g., choose a home address or a work address of the member), or the marketing program may accept a location inputted by the member as the location of the member. The area of the map may be adjustable to show various sized areas. The marketing program may also be operable to allow a member to specify categories or types of merchants to be shown on the map (e.g., restaurants, clothing stores, hardware stores, etc.). A skilled reader will recognize that other parameters may be included in the requested query.

The present invention may generate a map based upon the member map query. The data mining tool may be utilized to identify any merchants and/or community programs located within the area of the map.

An example of a map 50 of the present invention showing merchant information is shown in FIG. 5. This is just one example of possible maps that may be generated by the present invention, and a skilled reader will recognize that other map displays or other map outputs may be possible.

Maps generated by the present invention may show the merchant store(s) existing in, or near to, a location or area. The map may additionally show the location of any community programs occurring at the time when the query is sent (e.g., such as a street festival in the area, or a clothing drop-off located on a street). The map may have other facilities as well. For example, the map may indicate, may be by way of a symbol or colour indicator, that particular merchants are offering merchant incentives.

The map may also permit information regarding merchants, community programs and/or merchant incentives to be accessed by a participant, for example, such as by a display that appears when a mouse is held over where the merchant and/or community program is shown on the map, or by a clickable access to information (e.g., clicking the merchant location accesses the merchant web page or a summary of merchant information, etc.), or other information access and/or display means. The displayed or accessed information may include the location of a merchant store and/or a community program, the dates when a community program is occurring, the date(s) for a merchant incentive, and any other information. The displayed or accessed information may be provided in accordance with rules of the marketing program. A skilled reader will recognize that the present invention may include other options of visually displaying or accessing information regarding merchants, community programs and merchant incentives in a specific location.

Still other embodiments of the present invention may be operable to recognize the location of a member at a point of time. For example, a GPS system on a mobile device in the possession of a member or other participant may send location information to the marketing program. In this embodiment the marketing program may provide a member with information regarding merchant incentives pertaining to the location of the member at a point in time. (For example, a member who travels on vacation to New York City may be recognized by the marketing program as existing in New York City because the marketing program can read the location of the member based on a GPS feature or application linked to the smart phone in the possession of the member. The member may then submit a query to the marketing program requesting information about merchant restaurants local to the location of the member in New York City at the time of submitting the request. The marketing program may generate a map showing merchant restaurants in the vicinity of the location of the member submitting the request in New York City. The function and capabilities of the map may be as are described above.)

Data Storage Area & Data Mining Tool

The data mining tool of the present invention may be utilized to generate a wide variety of reports, reviews, lists, results, search displays and other data from the data stored in the data storage area. In some embodiments of the present invention, in order to produce certain outputs, the data mining tool may also engage the transaction linking utility to generate some information to be provided as part of the output.

The data stored in the data storage area may include information pertaining to past, present and/or future community programs. This information may be gathered by the administrator, as described above. The community program information may link a community program to a specific area or location, and may include details of the community program (e.g., dates, times, location(s), events, summary of community program, etc.).

The data may also include information regarding participants in the marketing program (e.g., merchants, members and intermediaries). This participant information may include information generated at the point of registration, as well as information collected at later points in time, for example, such as through surveys, tracked searches, etc.

The data may further include details of transactions between members and merchants. Such transaction details may include any merchant incentive that was applied to the

transaction. If an incentive was applied the community program that the incentive was applicable to may also be included in the data.

In one embodiment of the present invention, a link may be produced between the transaction data and the community program information already existing in the data storage area. The data mining tool may be operable to limit information appearing on any report, review, list, results, etc., so that such information cannot include any personal information pertaining to any participant of the marketing program. Alternatively, the data mining tool may generate reports, reviews, lists, results, search displays, etc., in accordance with rules whereby the data mining tool anonymizes any personal information utilized to generate the reports, reviews, lists, results, etc. A skilled reader will recognize that other methods and means may be utilized to ensure that personal information is not disseminated in any report, review, list, results, etc. Additionally, a skilled reader will recognize that the rules for limiting the dissemination of personal information may be in accordance with privacy legislation pertaining to a particular jurisdiction, may provide limitations representing several levels of security, or may be set to a standard that is stricter than privacy legislation. The standard of privacy imposed on the information may be chosen and applied at the discretion of the administrator.

A skilled reader will recognize that other information regarding the transactions, participants, merchant incentives, donations, and community programs relating to the merchant program may be collected by the loyalty engine and stored in the data storage area.

In one embodiment of the present invention, a data access management utility may be utilized to organize the collection of data, the storage of data in the data storage area and the access of data in the data storage area. The data access management utility may be operable to restrict direct access to the data to the administrator, for the purpose of protecting data integrity and privacy of personal information. The data access management utility may further restrict access to particular by the data mining tool for particular types of information generation and/or for specific participants. In particular, the data access management utility may recognize that intermediaries have limited participation in the marketing program and therefore that any query or request for information instigated by an intermediary may not access, even for reporting purposes, particular data stored in the data storage area.

In one embodiment of the present invention all of the information existing in the data storage area may be accessible by the data mining tool for the purpose of generating reports, reviews, lists, results, summaries, overviews, and any other information. The reports, reviews, lists, results, search displays, summaries, overviews, and other information may be generated in accordance with rules of the loyalty system. For example, rules may be created whereby a merchant transaction report is generated at a regular interval (e.g., monthly, etc.) for each merchant showing the transactions between merchants and members during a specified period of time.

Rules may also be created to be used for the generation of reports, reviews, lists, results, summaries, overviews, and other information upon request. For example, rules may be created whereby a merchant may request a list of members existing in the vicinity of a merchant's store location.

In some embodiments of the present invention, free-form queries may also be undertaken by the data mining tool, whereby specific information may be gathered for a particular purpose or application. For example, after a merchant incentive is completed a free-form query may be created to generate information pertaining to the merchant incentive. This information may be reviewed to glean important understanding of the success of the merchant incentive. A report, review, result, etc. may be further utilized to develop new merchant incentives.

In other embodiments of the present invention, a search requested by a specific participant may be moulded by information specific to that participant. For example, if a search is requested and/or otherwise generated by a member, the data mining tool may mine the member's information, including the member's profile data, and determine the location of the member, or other preferences of the member, and may use this information as search parameters. The resulting report, review, list, summary, overview, and any other form of information collected during the search, may be limited to data for the location of the member and/or other preferences of the member.

In still another embodiment of the present invention, a web page or other display may be provided to a market program participant, whereby a request for information or other data query may be generated and conveyed to the data mining tool. The request for information or other data query may be generated through a request or search interface. For example, the request or search interface may be a web page or other display and it may provide entry spaces where specific information may be entered by a participant, such as a data range, a location, etc. Such a web page or other display requiring specific data entry may support a request for information or other data query that is governed by one or more rules of the marketing program. A web page or other display may further allow a participant to choose, or otherwise specify, specific types of information to be accessed by the data mining tool. Such choices or specifications may not be limited by any rules of the marketing program. A skilled reader will recognize that a variety of means may be utilized to provide a market program participant a means of requesting information or generating any other data query.

The data mining tool may be applied to utilize the request for information or other data query information provided by the participant, the marketing program rules, or other inputs to search the data storage area for data relevant to the request for information or other data query submitted by the participant to the marketing program. The data mining tool will be utilized to conduct the request for information or other data query search. Consequently, all of the information stored in the data storage area may be accessed by the data mining tool for the purpose of the request for information or other data query search. This information may include member profiles, transaction data, survey information, merchant incentive information, merchant information, intermediary information, etc.

For example, as shown in FIG. **6**, a request for information may be generated by a participant **60**, who utilizes a request or search interface **62**. When the participant submits the request for information to the marketing system the data mining tool may engage in a search process **64**. As an example, if the request for information is a search for merchants in a particular vicinity, the data mining tool may access data in the data storage area, including merchant profile information, survey feedback regarding merchants **65** and merchant incentive information **66**. The data mining tool will generate results **67** that may be displayed to the participant or otherwise communicated to the participant. In

one embodiment of the present invention a cost may be levied for access to the results, and or further searches based upon the results.

The results may display more than one merchant. The participant may be provided with the opportunity to select one or more of the merchants **68** to narrow the scope of the results. For example, the participant may have the opportunity to click upon a merchant included in the results provided as part of an online display. The activity of clicking upon a merchant may cause the participant to access the merchant's web page, or to cause the data mining tool to generate and display more details regarding the merchant. For example, a web page **69** showing reviews relating to the selected merchant and merchant incentives may be displayed when a participant clicks upon a merchant. It may be possible for a participant to conduct a transaction **70** with the merchant, such as a transaction whereby a participant purchases an item from a merchant, and said transaction may involve a merchant incentive. A skilled reader will recognize that this is just one example of how the request for information or data query may function and that other functions are possible.

Analytic Mode

In one embodiment the data mining tool may include an analytic mode. The analytic mode may be operable to cause the data mining tool to perform an analysis based upon the data that the data mining tool accesses. The analytic mode may incorporate rules of the marketing system, or may be distinct from rules of the marketing system.

The analytics may cause the data mining tool to produce information that provides more than a display of a subset of the data stored in the data storage area. The analytic mode may access and incorporate any of the information collected and gathered by the marketing program and stored in the data storage area. The analytic mode may therefore utilized to reflect information: in response to a particular advertisement, merchant incentive or other aspect of the marketing program; providing behavioural data relating to member transactions; and/or pointing to member interests which may be the basis for directing particular advertisements or merchant incentives to individual members or member groups. The analytic mode may be utilized to provide information to be used to develop new merchant incentives, marketing and philanthropic strategies for the marketing program participants and/or the wider community. Analytic mode results may reflect results for a particular area, which may be a city block, a neighbourhood, a city, a street, a region, a county, a province or state, a nation, etc., to reflect results for widening ranges of participants and locations.

For example, the data mining tool may produce a list of members existing in a particular location based upon a query, said query being a either a free-form query or a rule(s)-based query, if the analytic mode is not engaged for the data mining tool. If the analytic mode is engaged the data mining tool may analyze or otherwise filter, re-represent, consolidate or manipulate prior to presenting the generated data in a report, review, list, overview, summary, result, etc. A skilled reader will recognize that the analytic mode can undertake a variety of data analysis techniques, including algorithms, calculations, reviews, filters, consolidation, manipulation, re-representations. The analytic mode may further involve one or more rules of the marketing program. Additionally the analytic mode may be utilized to produce reports, reviews, lists, overviews, summaries, results, etc. on a regular basis, or upon demand, as described for the data mining tool generally above.

The benefit of the analytic mode may be to generate particular data, provided in a specific format, that may be utilized for a precise purpose. For example, the analytic mode may generate information that provides customer demographics for a particular merchant incentive. The customer demographics may be utilized to develop new types of targeted merchant incentives. A skilled reader will recognize that variety of types of information may be generated by an analytic mode and that a variety of uses may be made of such generated information in the context of the marketing program.

The data mining tool, with or without the analytic mode engaged, may be utilized to provide information to participants of the present invention that may aid in creating links between merchants, customer programs and/or specific customer demographics. For example, the data mining tool may be utilized to generate a list of members who may make use of a particular merchant incentive offered in one or more specific merchant store locations. Such a list may be utilized to provide instructions to the loyalty engine to disseminate a communication (e.g., via email, to a smart phone, etc.) to the members included in the list regarding a merchant incentive. As another example, the data mining tool may be utilized to generate a list of members and/or merchants existing in a particular location who may be interested in attending a specific community program event. Such a list may be utilized by a community event to produce a guest list to whom invites may be disseminated (e.g., via email, to a smart phone, via the regular post, etc.) to the member invitees. As yet another example, the data mining tool may generate a display of a set of reviews of a particular merchant to a third party considering becoming a member of the marketing program. Such a list may be utilized by the third party to decide whether to become a member of the marketing program or not, or whether to visit a particular merchant or not.

A skilled reader will recognize that a variety of information may be generated by the data mining tool, with or without the analytic mode engaged, and that the breadth of the information generated may be directly affected by the depth of information stored in the data storage area. Storing a wide variety of information in the storage data area, which may be portioned for storage purposes, but wholly accessible by the data mining tool, provides data having significant depth for the data mining tool to utilize. The present invention is therefore operable to provide not only a wide variety of information, but also detailed information and specific targeted information to be utilized for many purposes.

Transaction Linking Utility

A transaction linking utility may be operable to determine links between member or user behaviour or attributes and a transaction. The determination of links may be qualified, to indicate a level of likelihood or certainty of a match between the member or user behaviour or attributes and a transaction. For example, the transaction linking utility may be operable to determine that a search for a product undertaken by a member may have resulted in a particular transaction occurring. In this manner the transaction linking utility identifies a link or a match between the search and the transaction by the member. The match may not be wholly certain in each case and therefore the transaction linking utility may further be operable to indicate a level of certainty or likelihood that the match or link between the search and the transaction is accurate. Many factors can be utilized to determine the level of certainty or likelihood. A skilled reader will recognize that

a variety of member or user behaviours or attributes may further be factors in the determination of the transaction linking utility.

The transaction linking utility may be operable in some embodiments of the present invention to generate behavioural data regarding activities or behaviours of members or users in relation to transactions. The transaction linking utility may be utilized in conjunction with the data mining tool and in some cases the analytic mode to generate specific data for a variety of purposes relating to transactions.

Method

A skilled reader will recognize that a variety of methods may be applied in the present invention. The description below provides some possible examples of methods of the present invention.

Registration of Participants and Data/Information Collection

The method of the present invention may involve an administrator collecting information regarding community programs. The administrator may utilize automated search means and/or manual search means to locate community programs. Information regarding the community programs, for example, such as the dates, times, events, purpose of the community program, may be stored in the data storage area. The information collected regarding each community program may include details necessary for an individual to attend a community program, as well as details regarding the purpose, history or aims of the community program. All community program information may be stored in the data storage area. The information collected and stored for each community program may include details regarding the location where the community program operates or events relating to the community program are held.

The community program information may be displayed in a variety of means, such as in a list of community programs, a calendar showing the dates of community program events, or in any other means.

Members and merchants may register with the marketing program of the present invention. The process of registration may involve the members and/or merchants providing certain information to the marketing program. This information may be saved in a profile for each member and/or merchant. The profile information may include a variety of types of details, but may also include a participant identifier. The participant identifier may be retrieved from organizations or programs the merchant and/or member is previously involved in, for example, such as a BIN number, a financial card number, or a transaction number. Alternatively the participant identifier may be randomly generated and applied to the profile by the marketing program. Additional information may be collected regarding participants due to activities (e.g., transactions, searches, queries, reviews, etc.) and/or the provision of additional information by participants (e.g., by direct input, survey responses, etc.).

Some members may be boarded into the system, so that such members are not required to individually enter initial profile information. Profiles information may be transferred to the marketing program for members that have previously been involved with other organizations or programs form said organizations or programs. If boarding occurs the individual member will be required to activate the profile in order to register with the marketing program.

A boarding process, such as is shown in FIG. 7, may be utilized for example for employees of a company or a financial card provider. In this example, the company or financial card provider may decide to join the marketing program, for example, the company or financial card provider may join as an intermediary and thereby have partial

participation in the marketing program. The company or financial card provider may make available information regarding all of its employees or financial card holders for boarding purposes. The employees or financial card holders may be provided with a registration activation code. Once the employee or financial card holder provides the registration activation code to the marketing program the member registration is complete for the employee or financial card holder who then becomes a member 71 of the marketing program. In this example, the participant identifier for the members could be an employee number or a financial card number. This information would be transferred in the boarding process. Alternatively, an employee or financial card holder may be required to watch an informational video regarding the marketing program, or view other information prior to becoming registered as a member. A skilled reader will recognize the variety of means of registration that may be utilized to register a boarded member with the marketing program.

After registration members may access merchant information 72 regarding one or more merchants through the marketing program, as described in this specification. The member may request and access specific information regarding a merchant, for example, such as information regarding merchant products, services and/or incentives. The member may also review information pertaining to the member, such as any amount of rewards (such as reward points) accumulated by the member, member profile information, etc. The member may engage in transactions with the merchant 73, as a result of accessing information regarding a merchant or for other reasons, and the transactions may occur online or offline. Information regarding the transaction may be transferred to the marketing program 74, and the transaction linking utility may be utilized to confirm that a member is eligible for a merchant incentive. The matching may utilize details of the transaction or other member details stored in the data storage area in conjunction with the transaction details, for example, such as merchant incentive information, the identification of a member, financial card information, or other information, to identify when a member is eligible for a merchant incentive.

The transfer of information from a merchant to the marketing program for an online transaction may occur in a variety of ways. For example, the information may be transferred via an information link existing between the marketing program and the online site where the transaction occurred. If the online site where the transaction occurred is accessed through the marketing program website, or through a search engine linked to the marketing program, an information link may automatically transfer the information regarding the transaction to the marketing program. In other instances, the marketing system may be capable of searching the merchant online transaction information stored in the merchant's server to identify transactions involving members of the marketing program or any merchant incentive. In one embodiment, upon a merchant transaction a notification may be sent to the marketing system to search the merchant's transaction information, or the search may occur at any interval or time after the transaction. It may also be possible for the merchant site to transfer information to marketing system at regular intervals when there is relevant transaction information reflecting transactions involving either members or merchant incentives. Any transfer of transaction information or search of transaction information may occur either in real-time in relation to the transaction, or at any time after the transaction occurs. A skilled reader will recognize that a variety of other means and/or methods

of transferring transaction details to the marketing program during or after an online transaction occurs may be applied in the present invention.

The transfer of information from a merchant to the marketing program for an offline transaction may occur in a variety of ways. The point of sale device of the merchant may be operable to transfer transaction details to the marketing program, either during a sale, for example in real time, or after one or more sales as an upload. Alternatively, the merchant may have a system whereby an electronic report of the transactions is generated and transferred to the marketing program either automatically or upon a specific activity of the merchant. As yet another option, the marketing system may provide a screen whereby a merchant may fill-in transaction details and thereby provide the transaction details to the marketing system. A skilled reader will recognize that a variety of other means and/or methods of transferring transaction details to the marketing program during or after an offline transaction occurs may be applied in the present invention.

The present invention may involve other means of transferring online and/or offline transaction information to the marketing program. For example, a transfer means may be integrated with a point of sale device used in the transaction, whereby the information is captured by the point of sale device and transferred to the marketing program by the point of sale device. As another example, data feeds may be generated by one or more merchant acquirer or payment processor (for example, such as Moneris™) and the merchant acquirer or payment processor may transfer the data feeds to the marketing program. As yet another example, data feeds may be generated by one or more card issuers (for example, such as the Royal Bank of Canada™, Toronto Dominion Bank™, etc.) and the card issuer may transfer the data feeds to the marketing program. As still another example, data feeds may be generated by one or more card associations (for example, such as Visa™, MasterCard™, etc.) and the card association may transfer the data feeds to the marketing program. As yet another example, data feeds may be generated by one or more data aggregators and the data aggregator may transfer the data feeds to the marketing program. A skilled reader will recognize that other options may be available for transfer of information to the marketing program, including any combination of any of the examples provided above.

As the capture and storage of transaction details, for both online and offline transactions, may be critical to the effectiveness of the present invention, the marketing program may incorporate a means of obligating and/or otherwise requiring merchants to provide transaction details to the marketing program. For example, the provision of full and complete transaction details to the marketing program may be written as an obligation in any contract whereby the merchant becomes a participant of the marketing program. The administrator may check whether a merchant is meeting this obligation, for example by checking incentives against the transactions, or by any other checking means. A skilled reader will recognize that other means of requiring merchants to provide transaction details may also be applied.

Moreover, a merchant may consider itself to be obligated to provide transaction details due to a recognition that the marketing program is significantly more effective when robust transaction details are provided by all participating merchants, as the transaction details can be utilized to assist merchants to derive information regarding consumer behaviours, and other information. As is described herein, the information of the marketing program may be utilized for a number of purposes, including attracting a larger clientele, creating new incentive programs and other uses. These uses can create significant benefits for merchants, and for this reason, or to meet other obligations or requirements, the merchants may be inclined to assist by providing transaction details to the marketing program.

In one embodiment, a member may decide after accessing information regarding a merchant, a product, or receiving one or more incentives to undertake a transaction. As described in this application, the information may be accessed by way of a search (e.g., online or offline, and through a search engine or other data source linked to the marketing system or a search engine or other data source not linked to the marketing system). A search for information may be recognized by the marketing system, and a transaction occurring after the search may be assumed to have occurred as a result of the search, in accordance with criteria of the marketing system, such as the time-lapse between the search and the transaction. If the search causes an incentive to be communicated to the member that is redeemable based upon a transaction, the transaction may also be assumed by the marketing system to be based upon the incentive.

In another embodiment of the present invention, a member may not undertake a search, but may be assumed by the marketing system to have engaged in a transaction due to an incentive if: the incentive is advertised in the merchant location (e.g., a balloon is provided as an incentive with every purchase); the member acknowledges in a post-transaction survey that the transaction occurred due to the incentive; the member receives a communication about an incentive through electronic communication directed to a personal information area belonging to a member (e.g., a text, an email); the member accesses a webpage displaying the incentive; the member attends an event (e.g., a community program event, or other event) where the incentive is communicated and the attendance of the member at the event is made known to the marketing system and this information stored in the data storage area; and/or other communication means that is trackable by the marketing system so that the marketing system can evaluate the time between the communication of the incentive to the member and the transaction.

After the transaction is completed the transaction data may be processed. This may involve accruing a donation to a community program, if a donation was incorporated into a merchant incentive generated by the transaction.

In one embodiment of the present invention, a post-transaction survey **75** may be generated and disseminated to the member. The member may respond, and in particular may confirm whether the transaction occurred as a result of the member reviewing the merchant information through the marketing program.

At any point it may be possible for participants to request information from the marketing program **76**, as a report, result, review, search display, etc. This request for information or other data query may engage the analytic mode in some circumstances. A skilled reader will recognize that the results of the request for information or other data query may be utilized for a variety of purposes, including for example, identifying transactions occurring in a manner that indicates the transaction occurred as a result of the member receiving information regarding the merchant through the marketing program.

Intermediaries may register with the marketing program of the present invention and thereby gain limited access to the program functions and the marketing program data. For example, an intermediary may be a community group inter-

ested in limited access for the purpose of looking at the merchant incentives offered pertaining to the community group event. Or the community group may be interested in limited access for he purpose of generating lists of merchants and/or members that may be invited to attend a community program event (such as a fund raising dinner). The list may include local merchants and/or members, or merchants and/or members who have characteristics in their profile that suggest they may be interested in supporting the community program. As another example, an intermediary may be a marketing associate who is working with one or merchants to create merchant incentives relating to community programs. The marketing associate may be granted limited access to some of the data and a certain activities of the data mining tool, to generate information to aid the marketing associate in creating a feasible merchant incentive relating to a community program. As yet another example, an intermediary may be an organization, such as a company or a financial card provider. The organization's participation in the marketing program as an intermediary may provide a link whereby the organizations its associates direct involvement in the marketing program as merchants and/or members.

After the point of registration additional information pertaining to participants in the marketing program may be gathered through a variety of means. For example, a survey may be provided to a participant and completing the survey may generate data that is transferred and stored in the data storage area. Other means of entering information into the marketing program may also be provided to a participant, such as a web page. Surveys and other data input means may be provided to a participant through a variety of means, for example, such as a mobile device, a web page, or other means.

Possible Data Mining

After registration a merchant may consider possible incentives to implement at a merchant location and/or online. This decision may involve considerations of relevant community programs, possible incentives, cross-loyalty and/or cross-selling groups.

The marketing program may provide query and/or searching assistance whereby a merchant may use a template search query, and the search query may include drop down menus showing search options, to derive information from the marketing system. The template may be utilized by the data mining tool and/or analytic mode to generate a particular result, such as a report, list, incentive suggestion, community program link suggestion, cross-selling suggestion, cross-loyalty suggestion, or other results. A skilled reader will recognize the variety of results that may be derived from the data and/or information in the data storage area, as well as the variety of search query templates that may be provided to a merchant by the marketing system. The results may be utilized by the merchant to make decisions, such as, for example choosing incentives to implement, choosing to form cross-selling groups, choosing to form cross-loyalty groups, choosing community programs to link with, etc.

Information and other data collected by the present invention may be stored in a manner whereby the information is easily mineable by a variety of participants and/or third parties, including local businesses. The data mining tool, and optionally the analytic mode, may be utilized to generate or otherwise derive results that may be utilized by merchants or other business owners to determine indicators of successful incentives and other business generators in a specific geographic area. For example, the results of the present invention may indicate why one merchant location may get more

business than another merchant location or other business location, such as the type of incentive offered (e.g., balloons are offered as an incentive at one merchant location and since these appeal to kids the mothers shopping with their kids will frequent that merchant location which is significant because mothers represent the majority of shoppers in that geographical area; or people living in a particular area may be likely to leave on extended vacations to their cottages during the summer months and on weekends during the rest of the year and therefore may be unlikely to visit some types of merchants during these times; etc.). A skilled reader will recognize the many uses that may be made of the information and data collected by the present invention and the fact that such information is generally available for data mining and analytic uses.

In one embodiment of the present invention, the data mining tool may access information and/or data in the data storage area, and may also access information and/or data from other data sources, which may be outside the marketing system, such as data sources (e.g., databases, hard disks, etc.) controlled by intermediaries, other participants, or third parties. Access to these other data sources may be recognized by the template, by the analytic mode, or by other rules utilized by the marketing system.

A merchant may utilize the data mining tool to identify community programs occurring or to occur in the future, in the vicinity of one or more merchant store locations. The merchant may then devise and develop a merchant incentive for the one or more stores that are local to the community program, said merchant incentive being created to specifically relate to the community program. For example, the relation between the community program and the merchant incentive may function so that upon a transaction between a merchant and a member, a donation may be made to the community program. The transaction between a merchant and a member may be the point at which a merchant incentive is honoured, which may involve providing a tangible benefit to a member (such as a prize, sweepstakes entry, or a discount), transferring a benefit to a community program (such as a donation), or another activity. The transaction information may be transferred by the merchant, for example, such as by the merchant's point of sale interface, to the marketing program, and a transaction linking utility may be utilized to confirm that the merchant and member are participants of the marketing program, and that the member qualifies for one or more merchant incentives. A skilled reader will recognize that the merchant incentive may of various types, a coupon, a discount, entry in a sweepstakes, a prize, a donation to a community program, and that a variety of other merchant incentives are possible.

The merchant incentive may be tailored to reflect the specific relationship between a community program and a merchant, aspects of either the merchant or the community program, demographics of local members, etc. Information generated by the data mining tool may assist with the tailoring of a merchant incentive.

A variety of links may exist between participants of the marketing program and these links may be recognized in the data storage area. The links may also develop relationships between participants. Additionally the links and/or relationships may guide and direct the experience of participants of the marketing program Links may further be created whereby a merchant may be linked to the marketing program brand. Another possibility is that links are created between the merchant program and social media (e.g., Facebook, Twitter, etc.), whereby social media may be

utilized to promote merchants, merchant incentives, community programs and/or the marketing program.

In one embodiment of the present invention, to allow participants to access information regarding the marketing program, the marketing program functions, and to generate queries and/or requests for information, the marketing program may be presented as a website, having a main page and several pages attached thereto. The pages may reflect particular functions of the program, such as reward look-ups, maps of merchants and/or community programs, calendar pages showing community events and/or merchant incentives, links to merchants and/or community programs, access to merchant incentives available to a member, etc. The web pages may facilitate presentations viewable by participants and/or non-participants of the marketing program.

In one embodiment of the present invention, certain triggers may be set to initiate particular activities of the marketing program. For example, triggered activities may include: data mining in accordance with set rules; sweepstakes processing; donation distribution to community programs or other intermediaries (e.g., such as charities); postsale feedback; and enhanced analytic mode of the data mining tool. Additionally, particular reports may be produced at regular, specified intervals. Any activity of the marketing program may be initiated upon request, whether a trigger or a specified interval is set for that activity or not.

As shown in FIG. 9, in one embodiment of the present invention, a variety of inputs and outputs may be provided to and generated by the data mining tool. The inputs and outputs may also be affected by whether the data mining tool engages the analytic mode. For example, the data mining tool, and possibly the analytic mode, may access data or other information that is either stored in the data storage area of the marketing system 100, or may access information from other data sources 102, such as remote databases of intermediaries, merchants or other third parties that the marketing system is permitted to access. The data mining tool, and possibly the analytic mode as well, both of which are elements of the marketing system, may be operable to provide an output 104 that provides suggestions of incentives to a merchant, or group of merchants. The data mining tool, and possibly the analytic mode as well, may also provide other types of reports 106 or other documents as an output. The data mining tool, and possibly the analytic mode as well, may further be operable to generate one or more survey questions 108 as an output to be directed to members. Such survey questions may be dynamic questions. For example, a dynamic question could include the following or any other question: a question asking a member if an online query or search undertaken by the member prior to a transaction influenced the transaction if the marketing system identifies a suspected correlation between a query or search and a transaction; or a questions that are different depending on whether the transaction occurred on a weekend or a weekday.

A skilled reader will recognize that other results 110 may be generated by the data mining tool, and that these other results may be any of a wide-variety of results.

The data mining tool may access and utilize a variety of information in the course of it processing, such as any of the following, or any combinations of the following: transaction details; member demographics; searches data from searches providers or search engines that are linked to the marketing system; search data from search providers or search engines that are not linked to the marketing system, but that provide data to the marketing system; post-transaction survey

responses; responses from any other survey provided by the marketing system, for example, such as market research surveys, etc.; merchant details, including any merchant preferences, merchant store geographical locations, merchant capacity, merchant inventory, merchant target markets, or any other merchant information; seasonal behaviours of any participants of the marketing program, or any other users that data is collected for and transferred to the marketing system; weather trends of forecast information provided to, or accessed by, the marketing system; and any other information or data. A skilled reader will recognize that a variety of other data or information may also be available from the marketing system data storage area and may be utilized by the data mining tool, and in some instances by the analytic mode as well.

The information and data may be processed by the marketing system, and in particular by the transaction linking utility, the data mining tool, and in some instances by the analytic mode as well, to provide specific outputs. For example, the outputs may be any of the following: feedback regarding any success and/or failures of incentives associated with a merchant; feedback regarding any success and/or failures of incentives associated with similar merchants in non-competing geographical areas, if sufficient information regarding similar merchants is provided to, or accessed by, the marketing system; comparisons of incentives associated with a merchant and incentives associated with similar merchants in non-competing geographical areas, if sufficient information regarding similar merchants is provided to, or accessed by, the marketing system; feedback regarding success rates and trends from associated platforms, such as search providers, web advertising, traditional media (e.g., print, radio, television, etc.), if sufficient information regarding such associated platforms are provided to, or accessed by, the marketing system; and feedback regarding consumer behaviour or members or users. A skilled reader will recognize that a data or information may also be provided to, or accessed by, the marketing system and utilized by the transaction linking utility, the data mining tool, and in some cases the analytic mode as well, to provide a variety of other outputs as well.

Analysis of data to product behavioural data relating to members or users may be a particular output of embodiments of the present invention. The behavioural data may indicate consumer behaviour of members or merchants specifically. Such behavioural data may be derived through a variety of analysis means undertaken by the transaction linking utility, the data mining too and in some cases the analytic mode. The analysis behavioural data output may be utilized in conjunction with specific rules to formulate determinations for a variety of purposes by the marketing program and the participants. For example, the behavioural data may be applied to rules or formula, such as rules based on a determinant outcome, for example, rules having the following structure: if x then y. For example, if a consumer exhibits x behaviour then y is the outcome. As a further example, one rule may be that if a member or user undertakes a search on a mobile communication device then that member or user is exhibiting interest in a transaction in the near future. Therefore the time lapse between the search and the transaction may be expected to be a shorter time period than is expected between other searches and transactions to indicate a likely relationship between the transaction and the search. The basis for this rule may be that a search on a mobile device may be more likely to occur while a member or user is already shopping.

This is an example of one rule that may be used to evaluate or analyze behavioural data. Rules may be further narrowed to factor in certain demographics or attributes of members, such as age groups, genders, parenting responsibilities, etc. which may affect transactions undertaken by members. A skilled reader will recognize that a variety of other rules and factors within rules may be utilized for other evaluations and analysis of behavioural data. A skilled reader will also recognize that extraction of behavioural data, and the analysis and evaluation of such data may expand the member demographic and attribute data of the present invention. This expanded data may be used for many purposes, including generating specific incentives to increase purchases made at merchant stores (either online or bricks and mortar stores) and the good will ascribed to merchants.

A skilled reader will recognize that a variety of reports or other documents may be generated by the data mining tool and in some instances the analytic mode as well. For example, such as incentives statistics or incentive trends, to provide details of incentives communicated, incentives redeemed, incentive effectiveness on a cost/return basis, and incentive effectiveness on a traction basis. As another example, success of associated platforms that may include search providers, web advertising, traditional media (e.g., print, radio or television) may be provided if information or data regarding associated platforms is provided to, or accessed by, the marketing system. Still another example is output that provides analysis and behavioural data relating to consumer activities of members or users. As yet another example, survey statistics, trends and conclusions may be generated, so that the marketing system may provide comprehensive reporting of survey data acquired and any correlations that can be made from external factors provided to, or accessed by, the marketing program. Such a correlation may be for example, that a golf course has fewer transactions on cold days. The marketing system may be operable to generate suggestions of activities that may address the correlations, generally in the form of incentive suggestions. For example, the marketing system may suggest that an incentive be offered on golfing costs when the weather is below a seasonal averages. A skilled reader will recognize that a variety of reports containing a variety of information, correlations and suggestions may be generated by the present invention.

As shown in FIG. 10, in one embodiment of the present invention, incentives may generated based on member activities and the data or other information provided to, or accessed by, the marketing system regarding these activities. A member 120 may generate a query or search 128 by utilizing a search engine that is either part of the marketing system or linked to the marketing system. The search engine 130, and possibly other media, may be utilized to generate search results and a search click history. The search history 132 may be provided to, or accessed by, the marketing system 136. The marketing system may use the search history, in conjunction with other information to generate one or more reports 142 which may be provided to one or more merchants 140. The search history may also be utilized with other information to generate incentive suggestions 122, which may lead to the generation of a merchant incentive 124, such as a discount, that may be approved 126 by a merchant. An approved incentive may be provided to a member as part of the search engine search results, or search click options.

A member 120 may further engage in one or more transactions 134 with a merchant. Details of each transaction

may be provided to a transaction processing system 144, such as a point of sale device, or any other means. The transaction details may be provided by the transaction processing system to the merchant 140. The transaction processing system may generate transaction data record 146, which may be provided to the marketing system and utilized by the transaction linking facility in particular.

A member 120, may also complete a post-transaction survey 148. The survey itself, or the survey data may be provided to the marketing system. All of the data provided to the marketing system, including the survey details, the transaction details and the search history details, may be utilized by the marketing system to generate reports, or other information, or certain activities, such as sales reports, suggestions for incentives, or incentive generation activities, as just a few examples of possible outputs of the marketing system.

Some embodiments of the present invention may be operable to generate incentives on an automatic basis. The marketing system may utilize information and data stored in the data storage area to perform particular analysis, including analysis of the effectiveness of prior incentives, as well as market trends, such as periods when sales are higher or lower. The marketing system may utilize the analysis results and other data to generate one or more new incentives. These incentives may be automatically generated and may be communicated by the marketing system pending merchant approval. Merchant approval may be manual or automatic approval. Upon approval the incentive may be auto-loaded to various media including any of the following: search engines, newspapers, brochures, flyers, specialty advertising (e.g., Val Pak™, etc.) or any other media.

A variety of information or data may be utilized by the marketing system to automatically generate one or more incentives. For example, any of the following data or information may be utilized: merchant type (e.g. merchant category, services and/or products provided, service vs. product based merchant, etc.); location of merchant stores and geographical location; history of a merchant's experience with past and present incentives (customer acceptance, feedback about the incentives, contribution margin, etc.), for example incentives that generate the most interest, as indicated by the incentives being rated highest by users and members in post-transaction surveys, or as indicated by a comparison of incremental sales data following the incentive being posted; successful incentives in areas that are non-competing geographical areas; indications of identified member's interest in an incentive, such as data based on recorded search patterns in an online search environment (e.g., frequent searching of a product, service, or member by a user), electronic coupons downloaded by a user or member, or the comparison of search patterns and/or downloaded coupons with transaction details; and member demographics tied to transaction history and trends.

Automated incentive generation may be based on a variety of criteria, for example it may be based on specific customer segments. Such customer segments may include as an example: targeted local neighbourhoods; customer demographics (e.g., gender, age, etc.); financial card BIN range, as this may determine if the card is a regular card, gold card, platinum card, etc., and the type of card may provide details regarding the card holder and the likely transactions to be conducted by the card holder; buying history of users, members, or other customers; users visiting a search provider's online site; the search behaviour of particular users,

such as frequent searches relating to a product or service, such as bikes or bike accessories, undertaken by a user or a member.

The incentives that are automatically generated may be related to several elements and/or factors. As an example, automatically generated incentives may be related to any of the following: a season; one or more days of the week, or of the month; special events, including holiday seasons (e.g., the Christmas season, etc.) and celebrations (e.g., parades, a community event such a run for a cause, etc.); or local events (e.g., little league finals, town street festivals, etc.). The success or effectiveness of an incentive may be determined based on any of the following: the statistics regarding whether an incentive is redeemed; post transaction feedback regarding the incentive, such as feedback derived from a post-transaction survey; and increased sales from a group of consumers targeted by an incentive, or during a period of time that is targeted by an incentive.

Transactions

Transactions between merchants and members may occur online or offline. A transaction will be recognized as occurring between a merchant and a member because the member will utilize at least one of the identifications recognized as belonging to the member by the marketing program. The merchant may also utilize at least one of the participant identifiers recognized as belonging to the merchant by the marketing program.

As an example of an online transaction, such a transaction may occur in a website environment, whereby a member purchases an item or service from a merchant through a series of clicks, or other online means of purchasing an item or service. The website will transfer the transaction information to the marketing program. In some instances the information may be transferred to the marketing program by a third party. The marketing program will recognize the transaction as occurring between a member and a merchant due to the use of the participant identifiers.

As an example of an offline transaction, a member may visit a merchant's store location and may undertake a transaction to purchase an item or service from the merchant. The transaction may involve a point of sale device that will transfer information regarding the transaction, including the participant identifiers to the marketing program. A transaction that does not involve a point of sale device may be recorded by another means and the transaction details, including the participant identifiers, may be transferred or manually entered into the marketing program. The transaction details may be transferred to the marketing system by a third party in some instances.

Depending upon the form of transaction, the transaction may be recognized by the marketing program in real-time, near-real time or after a time lapse. Transaction details may be matched to a member profile by the data mining tool or other element of the loyalty engine, and the transaction details may be stored to the member profile in the data storage area. Following a transaction a post-transaction survey may be communicated to a member, for example, via a web page, via email, via a mobile device, etc. The post-transaction survey may gather feedback from the member. In some embodiments of the present invention the post-transaction survey may be anonymous and the information collected from the survey may be stored in a manner linked to the merchant in the data storage area. This data may be utilized by the data mining tool and the analytics mode. Post-transaction survey results may be generated by the data mining tool and may be provided to participants of the marketing program.

A merchant may utilize information generated by the data mining tool and possibly the transaction linking utility, both of which utilize the data stored in the data storage area, to devise, define and develop a merchant incentive. In one embodiment of the present invention, an intermediary, such as a marketing associate, may be involved in developing or communicating a merchant incentive. Either or both of the merchant and the intermediary may access information generated by the data mining tool for the purpose of creating the marketing incentive, or analyzing the effectiveness of a marketing incentive once it is completed. A group of merchant incentives may further be analyzed for the purpose of creating more effective merchant incentives in the future.

Information may be collected pertaining to participants in the marketing program upon the event of transactions between a merchant and a member. Such information may be transaction details, and may further include details regarding any related merchant incentive. As described above a merchant incentive may be related to a community program and therefore may be available at one or more merchant stores that are within the vicinity of the community program. (The vicinity may be of various sizes, a community park area, a neighbourhood, a city, a county, a province or state, a country, etc.) The merchant incentive, or information about the merchant incentive, may be communicated to a member, or a group of identified members, in a variety of means, including via a web page, via a mobile device, via an email or text, etc. A merchant incentive, or information about the merchant incentive, may be communicated to a mixture of members and third parties by a variety of means, including print media, radio or television broadcasts, web pages, billboards, emails, text, mobile devices, etc.

The communication of the merchant incentive to third parties may introduce said third parties to the one or more merchant stores, the community program that the merchant incentive pertains to and/or the marketing program. In one embodiment of the present invention, transactions between third parties and merchants during a merchant incentive or a community program may be tracked and data regarding such transactions may be stored in the data storage area. Said data may be utilized by the data mining tool and the analytics mode to produce analysis of the transactions to aid in the participation of the merchant in the marketing program, for example, such as to create new effective merchant incentives.

In one embodiment of the present invention, transactions may include transactions that do not occur at a physical (bricks and mortar) store location, but may include transactions occurring in a digital environment, such as via a website.

Example Method

A skilled reader will recognize that the marketing system and method of the present invention may function in a variety of ways. As an example of one embodiment of the present invention, a system administrator may cause a local community program to be stored in the marketing system, for example, such as Caribana, a festival celebrating Caribbean culture held in cities such as Toronto, Canada. One or more merchants registered with the marketing program may recognize that one or more Caribana events will occur near a store location. The one or more merchants may develop one or more merchant incentives related to Caribana. The one or more merchant incentives related to Caribana may be communicated to participants, for example, to members that are located near to one or more Caribana events, or to members that are located near to the one or more merchants

offering Caribana related incentives. The one or more merchant incentives may also be communicated to third parties, and information regarding the marketing system may also be communicated to third parties so that third parties can know how to become a participant of the marketing system.

Transaction details regarding transactions with the one or more merchants whereby the one or more merchant incentives are redeemed may be transferred to the marketing system and stored in the marketing system. A skilled reader will recognize that the means of transferring transaction details to the marketing system may be varied and that the options may differ for online and offline transactions. Some of the possible means of transferring transaction details for online and offline transactions are discussed above, although a skilled reader will recognize that the discussion does not provide a complete list of all of the possible transfer options it merely provides some examples of transfer options.

A post-transaction survey may also be provided to participants and/or third parties redeeming merchant incentives to gather information relevant to the transaction and the participants and/or third parties undertaking the transaction.

The transactions may involve registered members of the marketing program. A member may be identified as a member during the transaction by using one or more participant identifiers and/or other identifications recognized by the marketing program as associated with the member. For example, the member may use a participant identifier or other identification that is a financial card, a number generated by the marketing system, or any other identification.

The data mining tool, and in some instances the analytic mode, may be utilized to search the transaction details and other marketing system data to provide results. The results may indicate success measurements for promotions and the results may also indicate information that may be applied to the creation of other incentives in the future. For example, the results may indicate demographic information regarding the persons redeeming incentives, including participants and third parties. In the case of an incentive created by a merchant in relation to a Caribana event, the results may indicate that participants and/or third parties wanting to redeem an incentive may not be local to the merchant location, but may have travelled from a specific area, for example, such as a specific town in the province, or a specific neighbourhood in the city that is distant from the merchant location. In this manner the present invention may be utilized to draw assumptions regarding the relationships between transactions at a merchant location and a particular incentive offered at that merchant location. A skilled reader will recognize the variety of results that may be provided by the present invention and the ways that such results may be utilized by participants and/or third parties.

The data mining tool, and in some instances the analytic mode and/or the transaction linking utility, may also recognize that the activities of a participant may cause that participant to be eligible for specific incentives. For example, the frequency of transactions with a merchant, the time of day of a transaction with a merchant, the creation of a review, or other activities may cause a participant to be eligible for an incentive. The data mining tool may automatically apply the incentive, such as a donation to a community group, may automatically communicate the incentive to the participant, such as a coupon for a future purchase, or may apply or communicate the incentive based upon instructions by the administrator or merchant.

Cross-Sell

In another embodiment of the present invention, cross-selling relationships and programs may be created. A cross-

sell involves at least two merchants, or at least two merchant stores, that are generally non-competing. A cross-sell occurs when a member completes transactions at each of the two (or more) merchants involved in a cross-sell relationship. A cross-sell may be required to include the transactions with the merchants involved in a cross-sell relationship occurring within a specified period of time. Events of cross-selling may be validated by a query sent to the transaction linking utility in accordance with particular rules that cause the transaction linking utility to identify valid cross-sells by members. For example, a transaction with one of two cross-sell merchants followed within the specified period of time with a transaction with the other cross-sell merchant may be recognized as a cross-sell. As another example, if the transactions are online, a click to complete a transaction with one of two cross-sell merchants followed by a click to complete a transaction with the other cross-sell merchant may be recognized as a cross-sell.

As yet another example, a cross-sell may be refined based on the terms of the cross-sell incentive. Such terms may include specific times, specific day(s) of the week, minimum purchase restrictions, or other terms. So that if a transaction occurred at each of two cross-sell merchants and the transactions meet specific terms, for example, such as occurring on a Tuesday between 5 pm and 8 pm, then this may be recognized as a cross-sell. A skilled reader will recognize that other criteria may be utilized to define cross-sells.

Upon the completion of, or recognition of, a cross-sell a reward may be generated and communicated or distributed to the member. In one embodiment of the present invention, a member may be required to login to the marketing program to accept or otherwise obtain the reward. Specific steps may be required to accept the reward, or alternatively the reward may be transferred to the member's profile and be visible when the member accesses his or her profile information. Other means of accepting or obtaining the reward may be utilized with the present invention as well. The reward may be of a variety of types, such as a coupon, bonus offer, prize, sweepstakes entry, etc. A reward may therefore be redeemed in accordance with the nature of the reward.

A cross-sell relationship could be created amongst merchants, or merchant stores for a variety of reasons. For example, a merchant that includes two or more stores could create a cross-sell relationship whereby a member would have to visit all the merchant stores before receiving a prize (e.g., such as a treasure hunt). As another example, a merchant having a single store may provide a reward after multiple visits (e.g. after nine transactions a 50% discount will be applied to the next transaction).

As yet another example, a group of merchants could unite to provide a benefit to members that undertake transactions at all, or some, of the associated merchants. It may be possible for the benefit to increase as the member undertakes transactions with an increasing number of merchants. It may be possible the marketing program may define the group of merchants, for example, such as a group that includes merchants from the same category (e.g., sports stores) or from complimentary categories (e.g., clothing stores and shoe stores). It may be possible for the reward to involve a merchant outside the group of cross-sell merchants (e.g., transactions with a cross-sell group of three golf course merchants will generate a reward for a member that is a coupon for a free dinner at a restaurant merchant).

In one embodiment of the present invention chain cross-selling may occur between three or more merchants. Chain cross-selling may involve three or more merchants, generally non-competing merchants, deciding to create a chain

cross-sell group. The chain cross-sell group may involve three or more merchants with related products and/or services that may offer incentives based upon a member frequenting three or more of the chain cross-sell group. A member in a chain cross-sell group may be outside of the marketing system. In a chain cross-sell group it may be possible for the incentive offered to a member or other participant to increase as more of the cross-sell group products and/or services are purchased. The member, or other participant, may be recognized by the provision of an identification that is stored in the marketing system, whereby the member is identified as a member of the marketing system, such as a participant identifier.

For example, a cross-sell group may include a hotel, golf course, restaurant, sports store and hiking guide in a particular location, such as Banff, Alberta, during a particular event, such as the summer golf months. A member, or other participant, who stays in the hotel and plays golf at the golf course in the cross-sell group may receive a 10% discount or other incentive. Whereas, if a member books a hotel room, a round of golf and dinner at the restaurant that are part of the cross-sell group a 20% discount may be applied. And as the member purchases products and/or services from even more of the cross-sell group the incentives continue to increase. A member staying at the hotel, who golfed at the golf course and ate dinner at the restaurant, and who also purchases a product at the sports store may receive 40% off the product purchased at the sports store. Should that member also book a hike with the hiking guide of the cross-sell group then the hike may be provided at a 50% discount and a donation may be given to the Banff National Park, or another community group. A skilled reader will recognize that a variety of cross-sell groups may be formed and that a variety of incentive options may be provided based upon the cross-sell groups.

Cross-selling incentives may be evaluated to determine the success of the cross-sell incentives. it may be possible for the cross-sell incentives to be evaluated as individual incentives, and as a group of cross-sell incentives. In this manner the marketing system may evaluate whether a particular incentive was successful on its own, and whether a group of incentives were popular. In this manner it may be possible to identify where cross-selling led to transactions frequently, including transactions that may not have otherwise occurred without the cross-sell incentive being offered. For example, did the offer of a hiking guide lead to more use of this service by members staying at a hotel, eating at restaurant and golfing at a golf club that are part of a cross-sell group than would have occurred if the hiking guide was not included in the cross-sell. A skilled reader will recognize the variety of evaluations that may be undertaken of the individual and collective incentives involved in a cross-sell.

In one embodiment of the present invention, as shown in FIG. **11**, two or more merchants **150** may collaborate to produce one or more cross-sell collaborations **152**. The collaboration may involve one or more incentives **154** provided by each merchant. The incentives of each merchant may be combined into a linked incentive **156**. The linked incentive may include a further incentive **170**, that is honoured when transactions with each of the collaborator merchants are undertaken by a single member. A member **158** may perform a query or search **160** utilizing a search engine or other means, and the linked incentive may be communicated to the member as a result of the chain of search links accessed by the member. For example, clicking a search link of one of the merchants involved in the collaboration may

cause the linked incentive to be communicated to the member directly. The linked incentive may also be communicated and made available to users by search engines and other media **161** as well. The search history **162** of the search and the chain of search links may be provided to the marketing system **164**.

The member that undertook the search and had the linked incentive communicated to him or her, may undertake a transaction **166** at one or more of the collaborating merchants. Transaction details **168** for each of the transactions may be transferred a transaction processing system **169** that may generate transaction data **168**, and the transaction data may be transferred to the marketing system **164**. The marketing system may process the transaction details and any post-transaction survey **167** results provided by the member. The marketing system may generate a combined incentive report **172**. For example, the generation of the combined incentive report may occur when a merchant undertakes transactions™ with all of the collaborative members and triggers the additional incentive, or at any other time. Results for sharing **174** may be generated from the combined incentive report so that results of each of the incentives in the linked incentive are shared with all collaborative merchants, so that each merchant receives results relating to its particular incentive and the additional incentive, results may be produced to share some of the results of two or more collaborative members, or results may be produced in any other configuration. Results may be compared to the collaboration, so that conditions of the collaboration, such as the additional incentive, may be evaluated. In particular the comparison may consider whether the conditions were fulfilled. In some embodiments of the present invention the marketing program may auto-generate suggestions for cross-sell incentives or auto-generate cross-sell incentives for approval by collaborating merchants.

Cross-Loyalty

The marketing program of the present invention may further involve cross-loyalty programs or cross-marketing programs. Such cross-marketing program may function in a manner as described in U.S. patent application Ser. No. 11/283,856. The cross-marketing programs of the present invention may further involve a variety of merchants and intermediaries, such as community programs. In this embodiment of the present invention the community program may work with the merchant to develop a cross-loyalty program. To aid a merchant in creating cross-loyalty and/or cross-sell relationships, the data mining tool may be utilized by the merchant to access information regarding other merchants and/or intermediaries (or groups of merchants and/or intermediaries) that are participants in the marketing program.

Some of the more advanced loyalty systems may be termed automated cause marketing ("ACM"). An ACM program typically automates dissemination of benefits to several parties involved in fundraising, including one or more supported organizations (for example, charities), merchants, and individuals (also referred to as members, consumers, or customers). Optimally, flow-through to the supported organizations is maximized in the ACM model. One exemplary model of an ACM program is disclosed in U.S. patent application Ser. No. 12/118,923 to EDATANET-WORKS™ for "Method, System, and Computer Program for Providing a Loyalty Engine for Automated Cause Management".

The present invention enables an intermediary such as an advertising provider to also be advantageously associated with the ACM program while also increasing contribution

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opportunities to the supported organizations and loyalty opportunities to the merchant. The merchants and advertising provider may acquire and analyze data associated with consumer-merchant transactions. The present invention is equally beneficial for enabling an online advertising provider to benefit from offline transactions as it is from online transactions.

The present invention also provides the above advantages optimally using a mobile device or other wireless means. The mobile device may enable optimal dissemination of offers, rewards, contests, surveys, mapping, or other location or proximity based services. Mobile access to an ACM program interface may also be provided.

Mobile Communications Facility

The present invention also discloses a mobile device utility that can be used with an ACM program to further enhance the systems and methods described above. The mobile device utility may receive and deliver content between the ACM program and a member's mobile device using SMS/MMS, cellular network, wi-fi, or other wireless mobile communications mediums and protocols. The mobile device utility may transmit and receive information using a secure protocol.

The mobile device utility is operable for any ACM program and, in particular, should not be considered limited to an ACM program where merchants and supported organizations are of any particular type, whether local, regional, national, etc.

The mobile device utility may be synchronized in real time or near real time with the ACM program. For example, if content such as surveys, offers, rewards, or contests are disseminated using the mobile device utility that content may not be made available to the same member using a typical portal to the ACM program, such as the ACM program web site. Similarly, if the member receives content while using the typical portal to the ACM program that content may not be made available to the same member via the mobile device utility. It should be noted that if the ACM program typically records the information exchanged between the ACM program and the member, the ACM program could be adapted to also record associated information exchanged with the member using the mobile device utility such that the mobile device utility may be a seamless addition onto the typical ACM program.

Optimally, the recording features of the ACM program would be operable to identify which information is exchanged using the mobile device utility, since such information may be desired by parties associated with the ACM program. This information can be advantageously used to provide advanced analytics in connection with the movements of and transactions of members. For example, mobile specific reports may be generated for a merchant or intermediary or across the entire ACM program or a subset thereof, whereby information is provided related to all facets of member-mobile interaction including mobile surveys, mobile reward redemption, and mobile contest entries. These reports can be used by merchants to determine whether to issue rewards based on location tied to a member's prior shopping patterns or based on inventory variables.

A member may provide its mobile device information to the ACM program using any of a number of methods. The member may navigate to the ACM program interface, such as a web site, authenticate as a registered member (in accordance with the ACM program details), select a link corresponding to mobile device setup and then provide the mobile device information such as phone number or other

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identifier. Alternatively, a member may access the web site using the mobile device. In this case, a web page tailored to a mobile device may be displayed to the member. The member can provide authentication information, and once the ACM program validates the member, the active mobile device can be associated to the member's ACM program profile without the member needing to manually enter it. An unsuccessful authentication in either implementation can be handled by the ACM program by providing the member with an alert that authentication failed.

It will be appreciated by those skilled in the art that other variations of the embodiments described herein may also be practiced without departing from the scope of the invention. Other modifications are therefore possible.

The invention claimed is:

1. A computer-implemented system comprising one or more data storage devices storing at least one member profile and at least one merchant profile, each of the at least one member profile including a payment identifier of a corresponding member, wherein the computer-implemented system is configured to:

receive or access data related to smart phone online user activity of at least one program member, the smart phone online user activity including at least one of browsing activity and searching activity in one or more browsing or search sessions, wherein the data related to the smart phone online user activity is associated with a member profile when the smart phone online user activity is performed in a session associated with the member profile;

receive data associated with a transaction conducted with a merchant, wherein the data associated with the transaction:

includes a transaction amount and a payment identifier associated with a form of payment used in the transaction; and

are exchanged via telecommunications hardware for the transaction with a short range wireless network operating according to the 802.11 family of standards;

when the payment identifier associated with the form of payment used in the transaction corresponds to the payment identifier of a member profile, determine:

whether the transaction is associated with the corresponding member;

a level of certainty that the transaction is linked to the smart phone online user activity associated with the corresponding member based on the data associated with the transaction; and

a length of elapsed time between the occurrence of the transaction and the occurrence of the smart phone online user activity of the corresponding member, wherein the determined level of certainty varies based on:

the length of the elapsed time;

the data related to the smart phone online user activity; and

the data associated with the transaction;

and

based on the level of certainty, generating signals to cause redirection of a portion of the transaction amount to an account associated with an intermediary.

2. The computer-implemented system of claim 1 further configured to receive or access:

data regarding at least one member and at least one merchant;

the data regarding at least one of the at least one member; and

the at least one merchant includes at least one of:

information provided during a sign-up process;

information provided based on activities of the at least one member and the at least one merchant associated with a marketing program; and

information provided by a third party data source to the computer-implemented system.

3. The computer-implemented system of claim **1** further configured to generate one or more incentives based at least in part on the at least one of browsing activity and searching activity, at least one of the one or more incentives including at least one of the following: a discount, a donation to a community program, a giveaway, a sweepstakes entry, and rewards.

4. The computer-implemented system of claim **3**, wherein a data mining tool and analytic mode are applied to determine the effectiveness of at least one of the one or more incentives.

5. The computer-implemented system of claim **3**, wherein one or more incentives are provided by cross-selling collaboration between at least two of the one or more merchants.

6. The computer-implemented system of claim **3**, wherein one or more incentives are provided as part of a cross-loyalty or cross-marketing program between at least two of the one or more merchants, or at least one of the one or more merchants and at least one intermediary.

7. The computer-implemented system of claim **3**, wherein the one or more incentives include a benefit to an intermediary associated with a community program, wherein the computer-implemented system matches a location of the community to a location of the one or more members to generate the one or more incentives.

8. The computer-implemented system of claim **3** further configured to access or receive data from third party sources, and said third party data includes information applicable to generation of the one or more incentives, including at least one of the following: sales reports for third party merchants indicating sales at particular periods of time; dates of events or holidays; or present or past weather forecasts.

9. The computer-implemented system of claim **1**, wherein information for at least one member is accessed from a third party data source in accordance with a boarding process, wherein the boarding process allows the third party data source to associate with the computer-implemented system, whereby the at least one member is signed-up with a marketing program, and other information may be received by the marketing program at any time after the sign-up process.

10. The computer-implemented system of claim **1**, wherein one or more incentives are generated based upon consumer behavioural results as indicated by the determined level of certainty that the one or more transactions is the result of the smart phone online user activity.

11. The computer-implemented system of claim **1**, wherein one or more incentives are generated based upon the determined level of certainty that the one or more transactions is the result of a behavior associated with the smart phone online user activity associated with a particular member profile, said one or more incentives being generated for the particular member.

12. The computer-implemented system of claim **1**, further configures to send a post-transaction survey to a logical address associated with a corresponding member after the transaction to gather information regarding the transaction,

said post-transaction survey including a question asking the corresponding member if online activity results provided to the user resulted in the transaction, whereby the relationship between the search results and the transaction may be determined definitively.

13. The computer-implemented system of claim **1**, wherein online user activity is an inter-connected environment implemented by at least one of the Internet, an intranet, and a networked environment.

14. A method comprising:

receiving data related to smart phone online user activity of at least one program member, the one line user activity comprising at least one of browsing activity and searching activity in one or more browsing or search sessions, wherein the data related to the online user activity is associated with a member profile when the online user activity is performed in a session with the member profile;

receiving data associated with a transaction conducted with a merchant, wherein the data associated with the transaction:

includes a transaction amount, and a payment identifier associated with a form of payment used in the transaction; and

are exchanged via telecommunications hardware for the transaction with a short range wireless network operating according to the 802.11 family of standards;

when the payment identifier is linked to the member, determining:

the transaction is associated with the member;

a level of certainty that the transaction is linked to the smart phone online activity associated with the corresponding member based on the data associated with the transaction and the data related to at least one of browsing activity and searching activity; and

a length of elapsed time between the occurrence of the transaction and the occurrence of the smart phone online user activity of the corresponding member, wherein the determined level of certainty varies based on:

the length of the elapsed time;

the data related to the online user activity; and

the data associated with the transaction;

and

based on the level of certainty, generating signals for redirecting a portion of the transaction amount to an account associated with an intermediary.

15. The method of claim **14**, further comprising applying a benefit to a community program, said benefit being a donation to the community program.

16. The method of claim **15**, wherein the community program redirects the benefit to a third party beneficiary for an emergency, said third party beneficiary being one or more of the following: another community program; an emergency relief organization; or a team for a specific emergency event, whereby the redirection of the benefit is communicated to a media outlet and thereby communicated to the population generally, and whereby goodwill is generated for the merchant providing the benefit to the community program that is redirected.

17. The method of claim **14**, further comprising generating an incentive based on the at least one of browsing and searching activity, the incentive being applied to provide a benefit to a member, said benefit being at least one of the following: a discount, a donation to the community program, a giveaway, a sweepstakes entry, and rewards.

18. The method of claim **17**, further comprising communicating the incentive to one or more of the following: a communication device of a participant of a marketing program; a radio broadcaster; a print media; a television station; a website; and a search provider.

19. The method of claim **17**, further comprising accessing information from a remote data source and utilizing the remote data in the analysis to generate the future incentive suggestions.

20. A computer-implemented system comprising one or more data storage devices storing at least one member profile and at least one merchant profile, each of the at least one member profile comprising a payment identifier of a corresponding member; wherein the computer-implemented system is configured to:

receive or access data related to smart phone online user activity of at least one program member, the smart phone online user activity including at least one of browsing activity and searching activity in one or more browsing or search sessions, wherein:

the data related to the smart phone online user activity is associated with a member profile when the smart phone online user activity is performed in a session associated with the member profile;

information for at least one member associated with the member profile is accessed from a third party data source in accordance with a boarding process; and

the boarding process allows the third party data source to associate with a marketing program, whereby the at least one member associated with the member profile is signed-up with the marketing program;

receive data associated with a transaction conducted with a merchant, wherein the data associated with the transaction:

includes a transaction amount, and a payment identifier associated with a form of payment used in the transaction; and

are exchanged via telecommunications hardware for the transaction with a short range wireless network operating according to the 802.11 family of standards;

when the payment identifier associated with the form of payment used in the transaction corresponds to the payment identifier of a member profile, determine:

the transaction is associated with the corresponding member;

a level of certainty that the transaction is linked to the smart phone online activity associated with the corresponding member based on the data associated with the transaction and the data related to at least one of browsing activity and searching activity; and

a length of elapsed time between the occurrence of the transaction and the occurrence of the smart phone online user activity of the corresponding member, wherein the determined level of certainty varies based on:

the length of the elapsed time;

the data related to the online user activity; and

the data associated with the transaction;

based on the level of certainty, generating signals to cause redirection of a portion of the transaction amount to an account associated with an intermediary;

and

transmitting a post-transaction survey to a logical address associated with the corresponding member after the transaction to gather information regarding the transaction, said post-transaction survey including a question asking the corresponding member if online activity results provided to the corresponding member resulted in the transaction to thereby ascertain an objective relationship between the search results and the transaction.

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